

SERVICE MANUAL

LE-1 CHASSIS

MODEL

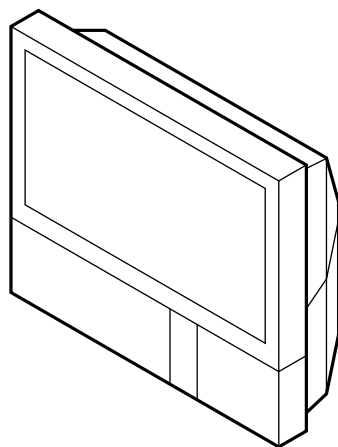
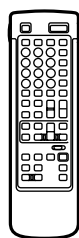
COMMANDER DEST.

KL-37W2U

RM-838 UK

MODEL

COMMANDER DEST.



* Please file according to model size.

37

TRINITRON® COLOR TV
SONY®

Specifications

This product complies with the EU Directive 89/336/EEC.

Television system	B/G/H, D/K, I, L
Colour system	NTSC 3.58/4.43 (VIDEO IN)
Channel coverage	See "Receivable channels and channel displays" at the bottom.
Projected picture size	37 inches Approx. 94 cm diagonally

Terminals

Rear	<ul style="list-style-type: none"> 1 21-pin Euro connector (CENELEC standard) inputs for audio and video signals - inputs for RGB - outputs of TV video and audio signals 2/ 2 21-pin Euro connector - inputs for audio and video signals - inputs for S video - outputs for audio and video signals (selectable) 4/ 4 21-pin Euro connector - inputs for audio and video signals - inputs for S video - outputs for audio and video signals (monitor out) 2, 4 S video inputs - 4 pin DIN Audio inputs (L, R) - phono jacks S video output 4-pin DIN Audio outputs - phono jacks Audio outputs (variable)-phono jacks
Front	<ul style="list-style-type: none"> 3 video input - phono jack Audio inputs - phono jacks 3 S video input - 4-pin DIN Headphone jack: stereo minijack

Sound output	2 × 5 W (RMS) Centre 1 × 20 W
Power consumption	170W
Dimensions (W × H × D)	Approx. 920 × 825 × 390 mm
Weight	Approx. 29 kg
Supplied accessories	See page 6.
Other features	Digital comb filter (High resolution) PAP (Picture-and-picture) FASTEXT Graphic Equalizer

Design and specifications are subject to change without notice.

Receivable Channels and Channel Displays

	Receivable channels	Indication on the screen
B/G/H	E2..12 21..69	C02 C03 C04..C12 C21..C69
CABLE TV (1)	S1..41	S01 S02..S41
CABLE TV (2)	S01..S05 M1..M10 U1..U10	S42..S46 S01..S10 S11..S20
ITALY	A B C D E F G H H1 H2 21..69	C11..C69
D/K	R01..R12 R21..R69	C02..C12 C21..C69
CABLE TV (1)		S01 S02..S41
CABLE TV (2)		S42 S43..S46
CABLE TV	B..Q, S21..41	S02, S03..S17, S21..S41
L	F2..F10 F21..F69	C01..C12 C21..C69
I	B21..B68	C21..C68

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SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK
▲ ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

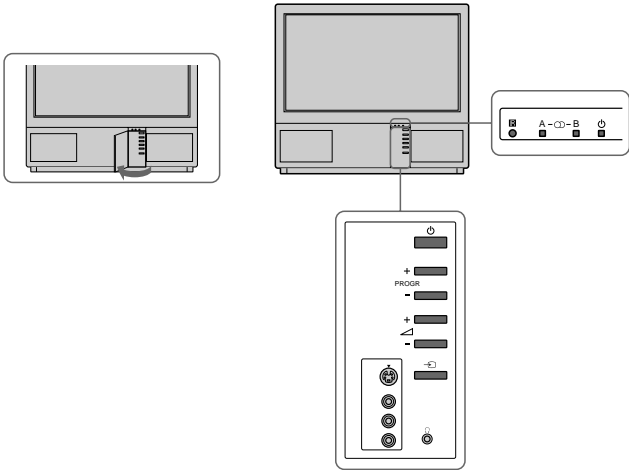
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

Overview

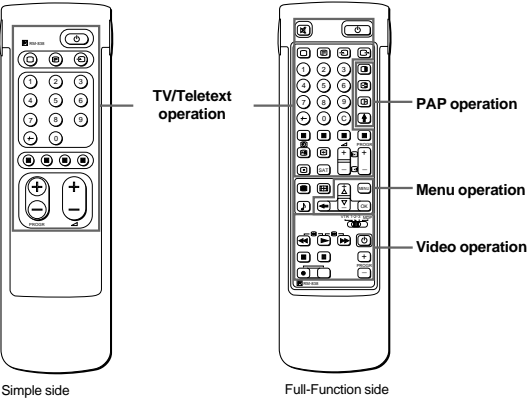
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



Symbol	Name	Refer to page
f	Main power switch	14
f	Standby indicator	14
A - m - B	Stereo A/B indicators	16
PROGR +/-	Programme	14
Δ +/-	Volume buttons	14
↺ ↻	Input select buttons	15
1	Headphones jack	23
↺ 3, ↻ 3, ↻ 3	Input jacks (S video/video/audio)	24

Remote commander



Note
The SAT button does not operate with this TV.

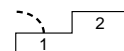
TV/Teletext operation		
Symbol	Name	Refer to page
o	Mute on/off button	15
f	Standby button	14
o	TV power on/TV mode selector button	14
—	Teletext button	15
↺ ↻	Input mode selector	15
↺ ↻	Output mode selector	24
1,2,3,4,5,6,7,8,9 and 0	Number buttons	14
—/+—	Double-digit entering button	14
C	Direct channel entering button	10
Δ +/-	Volume control button	14
PROGR +/-	Programme selectors	14
↺ ↻	Teletext page access buttons	20
●	Picture adjustment button	16
♪	Sound adjustment button	16
\$	On-screen display button	15
[Teletext hold button	20
#	Time display button	15
L L L L	Fastext buttons	20
⏏	"Freeze" button	15
⏏	Button to change Screen Format	15

PAP (Picture-and-picture) operation		
Symbol	Name	Refer to page
⏏	PAP on/off button	18
C	PAP source selector	18
⏏	Swap button	18
⏏	PAP freeze button	18
Menu operation		
Symbol	Name	Refer to page
MENU	Menu on/off button	7
>+/ ?—	Select buttons	7
OK	OK(confirming)button	7
@	Back button	7

Video operation		
Symbol	Name	Refer to page
VTR1/2/3, MDP	Video equipment selector	26
;; - :: L	Video equipment operation buttons	26
J a f		
PROGR +/-		

Getting Started

Step 1 Preparation

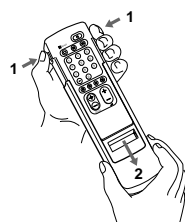


1 Check the supplied accessories

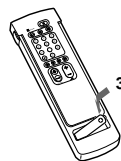
When you've taken everything out of the carton, check that you have these items:

- RM-838 Remote Commander
- One IEC designation R6 battery
- Wrench (1)
- Bracket (2)
- Dust Remover (1)

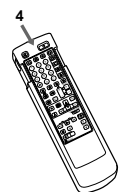
2 Insert the battery into the Remote Commander



Remove the cover.



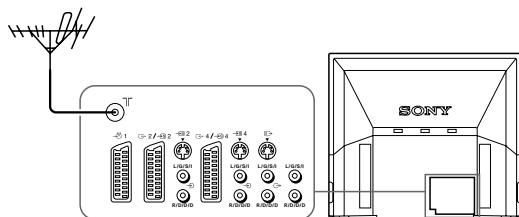
Check the correct polarities.



Refit the outside cover making sure that the Full-Function side is visible to use the menu in step 2.

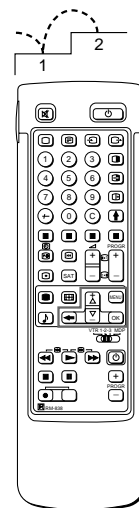
Note: Always remember to dispose of used batteries in an environmental friendly way.

3 Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the socket at the rear of the TV.

Step 2 Tuning in to TV Stations



Once you have set up the TV, you can choose the language of the menu. Then, you should preset the channels (up to 100 channels) by choosing either the automatic or manual method. The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

1 Choose a language

- 1 Press on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press or a number button on the Remote Commander.
- 2 Press the MENU button.
The LANGUAGE menu appears. (See Fig. 1.)
- 3 Select the language you want with > + or ? - and press OK.

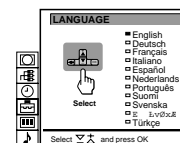


Fig. 1

2 Display the menu

Press MENU.

The main menu appears. (See Fig. 2.)

Using > + or ? - select the symbol and press OK.

Now, choose one of the methods described overleaf:

“Preset Channels Automatically”

or

“Preset Channels Manually”

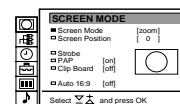
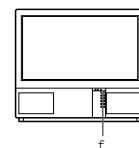



Fig. 2

To go back to main menu
Keep pressing .

To go back to the normal TV picture
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function
If you choose Demo in the Installation menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

3 Preset channels automatically

- 1 Select the symbol  for "Preset" with >+ or ?- and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select "Auto Programme" with >+ or ?- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK.
Select if necessary the TV broadcast system (B/G for Western European or D/K for Eastern European countries) with >+ or ?- and press OK. The first element of the "PROG" number will be highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with >+ or ?- or the number buttons (e.g., For "04," select "0" here) and press OK.
The second element of "PROG" will be highlighted.
- 5 Select the second element of the double-digit number with >+ or ?- or the number buttons (e.g., For "04," select "4" here) (See Fig. 5) and press OK.
- 6 Select "C" or "S" with >+ or ?- and press OK.
The automatic channel presetting starts.
When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. Press menu to restore normal TV picture.

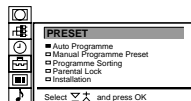


Fig. 3

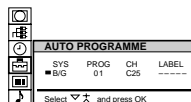


Fig. 4

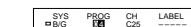


Fig. 5

To go back to the main menu
Keep pressing @.

To stop automatic channel presetting
Press @ on the Remote Commander.

Notes

- After presetting the channels automatically, you can check which channels are stored on which programme positions.
For details, see "Displaying the Programme Table" on page 15.
- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.


If you have made a mistake
Press @ to go back to the previous position.

To return to the main menu
Keep pressing @.

To go back to the normal TV picture
Press MENU.

To tune in a channel by frequency
After selecting F in step 6, enter three digits using the number buttons.

3 Preset channels manually

- 1 Select the symbol  for "Preset" with >+ or ?- and press OK. The PRESET menu appears. (See Fig. 6.)
- 2 Select "Manual Programme Preset" with >+ or ?- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)
- 3 Using >+ or ?-, select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Select, if necessary the TV broadcast system or a video input source (EXT)) with >+ or ?-.
- 5 Then press OK. The CH position will be highlighted. (See Fig. 8.)
- 6 Using >+ or ?-, select C (to preset a regular channel), S (cable channel) or F (to tune in by frequency) and press OK.
The first element of the "CH" number will be highlighted.
If you have selected EXT in step 5, select the video input source with >+ or ?-. (See Fig. 9.)
There are two ways to preset channels. If you know the channel number, go to step "7-Manual," or
If you don't know the channel number, go to step "7-Search."

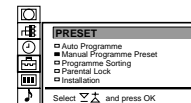


Fig. 6

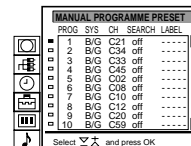


Fig. 7

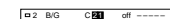


Fig. 8

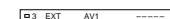


Fig. 9

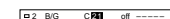


Fig. 10

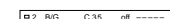


Fig. 11

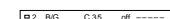


Fig. 12



Fig. 13

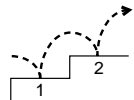
7 Manual

- a Select the first element of the "CH" number with >+ or ?- or the number buttons and press OK.
The second element of the "CH" number will be highlighted.
- b Select the second element of the number with >+ or ?- or the number buttons.
The selected number appears. (See Fig. 10.)
- c Press OK.
The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

7 Search

- a Press OK repeatedly until the colour of the SEARCH position changes.
- b Start searching for the channel with >+ (up) or ?- (down).
The CH position changes colour. (See Fig. 12.)
The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press OK if you want to store this channel. If not, press >+ or ?- to continue channel searching.
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

Additional Presetting Functions



This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with >+ or ?- and press OK. The PRESET menu appears.
- 3 Select "Programme Sorting" with >+ or ?- and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using >+ or ?-, select the programme position you want to move to another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using >+ or ?-, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.

PROGRAMME SORTING

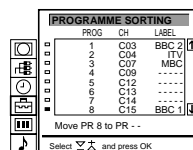
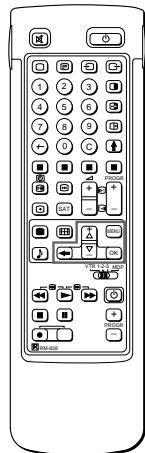


Fig. 14

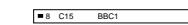


Fig. 15

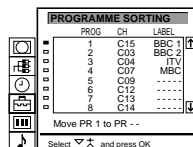


Fig. 16

For higher programme positions
The display scrolls automatically.

If you have made a mistake
Press to go back to the previous position
To go back to main menu
Keep pressing .

To go back to the normal TV picture
Press MENU.

INSTALLATION

Using "Further Programme Preset"

Using the menu "Further Programme Preset" you can

- a) in case of a strong local aerial signal (striped picture) attenuate the signal individually for each programme position (RF attenuator).
- b) individually adjust and store the volume level of each channel (Volume offset).
- c) in case of a strong sound signal (distorted sound), attenuate the sound signal for each programme position.
- d) use the manual fine tuning to obtain a better picture reception, if the picture is distorted. Normally the AFT (automatic fine tuning) is operating.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with >+ or ?- and press OK. The PRESET menu appears.
- 3 Select "Installation" with >+ or ?- and press OK. The INSTALLATION menu appears.
- 4 Select "Further Programme Preset" with >+ or ?- and press OK. The FURTHER PROGRAMME PRESET menu appears (See Fig. 17).
- 5 Using >+ or ?- select the desired programme position and press OK once to select a) "ATT" (RF Attenuator), twice to select b) "VOL" (Volume offset), three times to select c) "IN-AMP" (Input Amplifier) or four times to select d) AFT (Automatic Fine Tuning). The selected item changes colour.

To adjust or change:

- a) **RF attenuator (ATT)**
Using >+ or ?- select "On" for the selected programme position. Press OK to confirm the selection. Repeat step 5 to attenuate other programme positions.
 - b) **Volume offset (VOL)**
Using >+ or ?- you can adjust the volume level for the selected programme position within a range from -7 to +7. Press OK to store the volume level. Repeat step 5 to set the volume level for other programme positions.
 - c) **IN-AMP (input amplifier)**
Using >+ or ?- select "Off" for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.
 - d) **AFT**
Using >+ or ?- you can fine-tune the channel within a range from -15 to +15. Press OK to store the fine-tuned level. Repeat step 5 to fine-tune the other channels.
- 6 Press MENU to return to the normal TV mode.

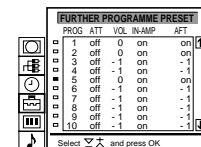


Fig. 17

To reactivate AFT (Automatic Fine Tuning)
Repeat from the beginning and select "ON" in step 5.

MANUAL
PROGRAMME
PRESET

If you have made a mistake
Press to go back to the previous position.

To go back to main menu
Keep pressing .

To go back to the normal TV picture
Press MENU.

MANUAL
PROGRAMME
PRESET

Skiping Programme Positions

You can skip unused programme positions when selecting programmes with PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with >+ or ?- and press OK. The PRESET menu appears.
- 3 Select "Manual Programme Preset" with >+ or ?- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 18.)
- 4 Using >+ or ?-, select the programme position which you want to skip and press OK.
The "SYS" changes colour.
- 5 Press >+ or ?- until "----" appears in the SYSTEM position. (See Fig. 19.)
- 6 Press OK. (See Fig. 20.)
When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.

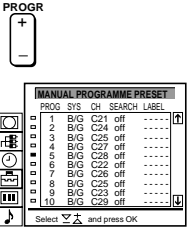


Fig. 18



Fig. 19



Fig. 20

Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with >+ or ?- and press OK. The PRESET menu appears.
- 3 Select "Manual Programme Preset" with >+ or ?- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 21.)
- 4 Using >+ or ?-, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with >+ or ?- and press OK.
The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 22.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin).
Now the caption you chose is stored. (See Fig. 23.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

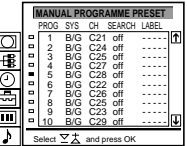


Fig. 21

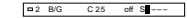


Fig. 22

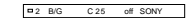


Fig. 23

PARENTAL LOCK

If you try to select a programme that has been blocked
The message "LOCKED" appears on the blank TV screen.

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with >+ or ?- and press OK. The PRESET menu appears.
- 3 Select "Parental Lock" with >+ or ?- and press OK.
The PARENTAL LOCK menu appears. (See Fig. 24.)
- 4 Using >+ or ?-, select the programme position you want to block and press OK.
The symbol appears in front of the programme number indicating that this programme is now blocked. (See Fig. 25.)
- 5 Repeat step 4 to block other programme positions.

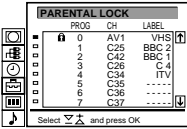


Fig. 24

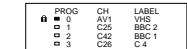


Fig. 25

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with >+ or ?-.
- 2 Press OK.
The symbol disappears indicating that the blocking has been cancelled.

Tuning in a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

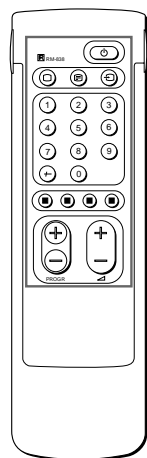
- 1 Press C on the Remote Commander. For cable channels, press C twice.
The indication "C" ("S" for cable channels) appears on the screen. (See Fig. 26.)
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).
The channel appears.
However, the channel will not be stored.



Fig. 26

Operating Instructions

Watching the TV



If no picture appears when you depress ϵ on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press \circ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress ϵ on the TV.

Switching off temporarily

Press ϵ on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up in red.

To switch on again

Press \circ , PROG \pm , or one of the number buttons on the Remote Commander.

When the power is turned on again right after the power is turned off, the projection TV will enter standby mode with the ϵ (standby) indicator flashing. After the set cools down, the power will come on.

Switching off completely

Depress ϵ on the TV and indicator on the front of the TV lights up in amber.

Selecting TV Programmes

Press PROG \pm or press the number buttons.

To select a double-digit number

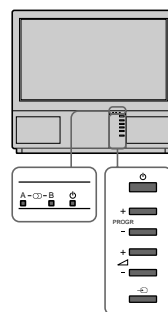
Press \pm , then the numbers. For example, If you want to choose 23, press \pm , 2 and 3.

Adjusting the Volume

Press Δ \pm .

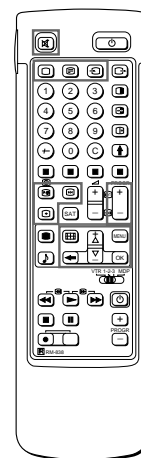
Operating the TV Using the Buttons on the TV

To select the programme number, press the PROG \pm buttons. To adjust the volume, press the Δ \pm buttons. To select the video input picture, press the \square button. To reset picture and sound controls to the factory preset level (RESET function), press PROG \pm buttons simultaneously.



For details of the teletext operation, refer to page 20.

For details of the video input picture, refer to page 24.



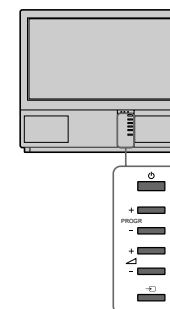
Watching Teletext or Video Input

Watching teletext

- 1 Press \square to view the teletext.
- 2 For teletext operation, enter a 3-digit page number with the number buttons to select a page. For fasttext operation, press one of the coloured buttons. For both operations, press ∇ (PAGE +) for the next page or \triangleright (PAGE -) for the preceding page.
- 3 To go back to the normal TV picture, press \circ .

Watching a video input picture

- 1 Press \square repeatedly until the desired video input appears.
- 2 To go back to the normal TV picture, press \circ .



More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press $\$$ once to display all the indications. They will disappear after a few seconds.
- Press $\$$ twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

Muting the sound

Press \circ . To resume normal sound, press \circ again.

Displaying the time

Press $\#$. This function is available only when teletext is broadcast. To make the time display disappear, press $\#$ again.

Displaying the Programme Table

Press OK. A Programme Table will be displayed on the left side of the TV screen. (See Fig. 27.)

Selecting TV programmes

Press PROG \pm or select the desired programme position using \triangleright or \triangleleft and press OK.

To make the Programme Table disappear, press MENU.

Freezing the Picture

When watching the TV you have the possibility to "freeze" the picture. Press \square . Press the button again to return to the normal TV picture.

Changing the Screen format

Press \boxplus repeatedly to change the Screen mode as follows:

4:3 (4:3 picture)

A Smart (imitation of 16:9 for 4:3 broadcast)

A Zoom (imitation of 16:9 for movies broadcast in cinematic format)

or

A Wide (for 16:9 broadcast).

See also page 19 for more information.

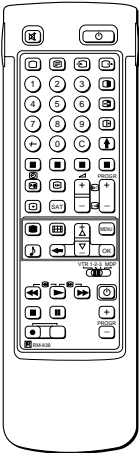
1	BBC	\square
2	SAT	
3	TV5	
4	C02	
5	C15	
6	RTL	
7	SKY	
8	S34	
9	AV1	
10	MTV	\square

Fig. 27

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL

SOUND CONTROL



If you have made a mistake
Press to go back to the previous position.
To go back to the main menu
Press .
Keep pressing .

Notes
• HUE is only available for NTSC colour systems.

When watching a video input source with stereo sound
You can select DUAL SOUND to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones. Also you have the possibility to adjust the sound to your individual taste using the Graphic Equalizer and special Sound effects.

- 1 Press (for picture) or (for sound) on the Remote Commander.
or
Press MENU and select the symbol for Picture Control or Sound Control, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)
- 2 Using >+ or ?-, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30.)
- 3 Adjust the setting with >+ or ?- and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 31.)
For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to TV picture.

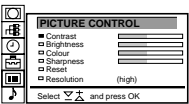


Fig. 28

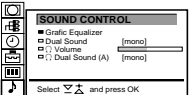


Fig. 29



Fig. 30



Fig. 31

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less More
Brightness	Darker Brighter
Colour	Less More
Hue	Greenish Reddish
Sharpness	Softer Sharper
RESET	Resets picture to the factory preset levels.
Resolution	Normal high: obtain a high quality picture

SOUND CONTROL	Effect
Graphic Equalizer	(See page 17 for more information)
Dual Sound	A: channel 1 B: channel 2 Stereo Mono The selected mode of the A-m-B indicator on the TV lights up.
Headphones:	Less More
Volume	A: channel 1 → B: channel 2 → PAP (if PAP is switched on you can select the PAP sound for the headphones)
Dual Sound	Stereo → Mono

Note: The modifications made in "USER" mode will be stored. All other settings are reset to factory-set level when you change to another mode.

TIMER

To switch off the timer
Select "OFF" in step 3.

To check the remaining time
Press .

To go back to the normal TV picture
Press MENU.

Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

Flat → Pop → Rock → Jazz → Vocal → User

- 1 Select "Sound Control" in the main menu, then select "Graphic Equalizer" using >+ or ?- and press OK. The GRAPHIC EQUALIZER menu appears (See Fig. 32).
- 2 Press OK. The colour of "Mode" changes. Select the desired mode with >+ or ?- and press OK.
- 3 If you want to modify a mode, select the desired bar of a frequency band using >+ or ?- and press OK. The selected frequency changes colour. Using >+ or ?- adjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.
- 4 Press MENU to return to the normal TV mode.

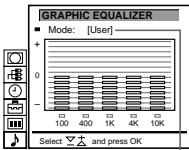


Fig. 32

Flat
Pop
Rock
Jazz
Vocal
User

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Using >+ or ?- select the symbol for "Timer" and press OK. The TIMER menu appears (see Fig. 33).
- 2 Press OK.
The time period option changes colour.
- 3 Select the time period with >+ or ?-.
The time period (in minutes) changes as follows:
10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90
- 4 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

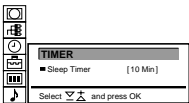
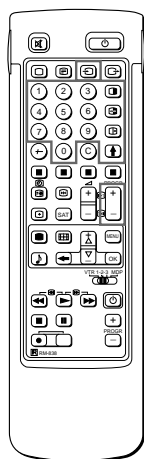


Fig. 33

PAP (Picture and Picture)



With this function you can display two screens at the same time. In this way you can watch two TV programmes at the same time. Also you can watch or monitor the video output from any connected equipment (for example from a VCR) while watching TV or vice versa. For information about connection of other equipment, refer to page 23.



Switching PAP on and off

Press to display the screens in 8:9 format.

The PAP screen will be displayed next to the main TV screen.

The PAP screen will come from the source chosen when the TV was last used.

To switch PAP off

Press repeatedly.

Selecting PAP source

Press .

The symbol will be displayed at the bottom, left-hand corner of the screen.

Press PROG \pm the number buttons or to select the desired source for the PAP screen.

Swapping screens

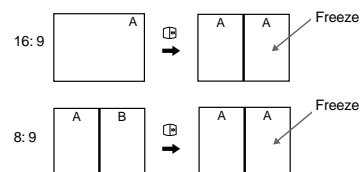
Press .

The main screen will switch the picture with the PAP screen.



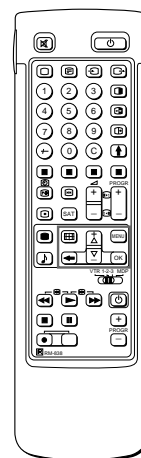
Freezing the picture

You have the possibility to "freeze" the picture of the PAP screen. Press once to freeze and twice to return to the normal screen.



Notes

- RGB input source cannot be displayed in PAP.
- PAP is not available in the Zoom mode.
- The sound of the right screen is only available via the headphones.
- The picture quality of the TV screen and PAP may differ.



When you want to select the screen mode

You can also select the screen mode by pressing the button on the Remote Commander.

Operating Screen Mode/PAP using the Menu

Using the Screen Mode menu you have the possibility to change the aspect ratio for the TV display for wide screen effects, operate the PAP Mode or reproduce the main picture image by image (Strobe function).

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Screen Mode" with \rightarrow or \leftarrow and press OK. The SCREEN MODE menu appears (See Fig. 34).

You have the choice among the following modes:

4:3 for normal ratio 4:3 (See Fig. 35).

Smart: imitation of wide screen effect (16:9) for 4:3 broadcasts (See Fig. 36).

Zoom: imitation of wide screen effect (16:9) for movies broadcast in cinematographic format (See Fig. 37).

or

Wide: for 16:9 broadcasts (See Fig. 38).

- a) **Changing the Screen position (only for Zoom mode)**

When using the Zoom mode part of the picture at the top and bottom will be cut off. With the help of the function "Screen position" you can move the screen up- or downwards in order to see the cut-off part of the screen (e.g., to read the subtitles).

Using \rightarrow or \leftarrow select "Screen position" and press OK. The selected item changes colour. Using \rightarrow or \leftarrow adjust the screen position and press OK.

- b) **Strobe Mode**

Using \rightarrow or \leftarrow select "Strobe" and press OK. Now the TV picture is displayed image by image, creating a slow motion effect (See Fig. 39). Using \rightarrow or \leftarrow select the speed of the motion (3 different speeds are available). Press OK to return to the normal TV mode.

- c) **Switching PAP on and off**

Using \rightarrow or \leftarrow select "PAP" and press OK. Using \rightarrow or \leftarrow select "ON" to display the PAP screen in 8:9 format and "OFF" to switch it off and press OK.

- d) **Freezing the PAP screen**

Using \rightarrow or \leftarrow select "Clip Board" and press OK. Using \rightarrow or \leftarrow select "On" to freeze the PAP screen and "Off" to restore the normal picture.

Auto 16:9

If you preset Auto 16:9 to ON and the 16:9 format signal is being transmitted, the screen mode automatically changes from any mode to the 16:9 mode. When the 16:9 format programme is finished, the screen mode automatically returns to the previous mode.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Screen Mode" with \rightarrow or \leftarrow and press OK. The SCREEN MODE menu appears.
- 3 Select "Auto 16:9" with \rightarrow or \leftarrow and press OK.
- 4 Select ON or OFF with \rightarrow or \leftarrow and press OK.

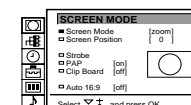


Fig. 34

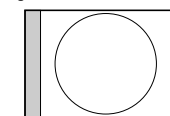


Fig. 35

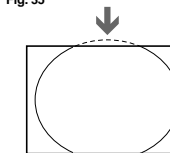


Fig. 36

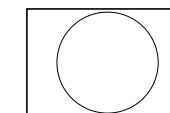


Fig. 37

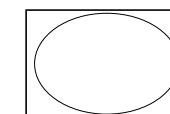


Fig. 38

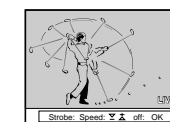
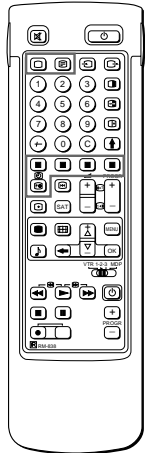


Fig. 39

Teletext



Note
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander
You can switch teletext on and off, operate Fastext, and directly select page numbers.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press **Teletext** to switch on teletext.
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press **Off**.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press **OK**. Using **>+** or **?-**, select the desired page. "Page Catching" will be displayed on the information line. Press **OK**. The requested page will appear in a few seconds.
Press **Teletext** to resume normal teletext reception.

Accessing next or preceding page

Press **(PAGE+)** or **(PAGE-)**.
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press **Teletext** once in teletext mode or twice in TV mode.
- Press **Teletext** again to resume normal teletext reception.

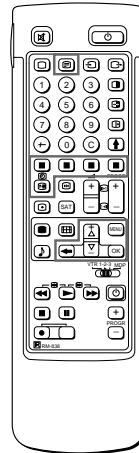
Preventing a teletext page from being updated

- Press **(HOLD)**. The HOLD symbol "t" is displayed on the information line.
- Press **Teletext** to resume normal teletext reception.

Using Fastext

Note
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Note
Some of the features may not be available depending on the teletext service.

Press **OK** to select "OFF" for the TIME PAGE setting to cancel the request.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press **MENU**. The menu will be superimposed on the teletext display. (See Fig. 40.)
- 2 Using **>+** or **?-**, select the teletext function you want and press **OK**. (See Fig. 41.)

USER PAGES/PRESET USER PAGES

See page 22 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 42.)

Press **>+** for "Top" to enlarge the upper half. For "Bottom" keep pressing **?-**, to enlarge the lower half. Press **OK** for "Full" to resume the normal size.
Press **Teletext** to resume normal teletext reception.

TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a teletext page to be captured. (The symbol changes colour.) (See Fig. 43.)
Press **Teletext** to resume normal teletext reception.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 44.)
Using **>+** or **?-**, select **ON** to reveal the information or **OFF** to conceal it again.
Press **Teletext** to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g., an alarm page) displayed at a certain time.

- 1 An information window will be displayed at the bottom of the page. Using **>+** or **?-** select "ON" and press **OK**.
- 2 To select the desired page, enter three digits for the page number (e.g., 452) using the number buttons.
- 3 To select the desired time, enter four digits for the desired time (e.g., 1800) using the number buttons. Press **MENU**. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed.
Press **Teletext** to resume normal teletext mode.

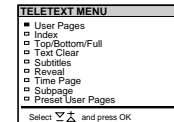


Fig. 40

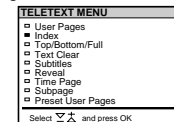


Fig. 41

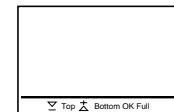


Fig. 42

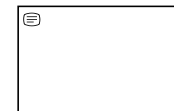


Fig. 43



Fig. 44

To cancel the request
Select Subpage and
press OK.

If two broadcasting
stations use the same
Teletext
You can preset one
bank to 2 different
programme positions.

SUBPAGE
You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.
To select the desired subpage, enter four digits using PROGR +/- or the number buttons (e.g., enter 0002 for the second page of a sequence).

User Page Bank System
You can store up to 30 pages in the "Teletext page band system". In this way you have quick access to the pages you watch frequently.

- Storing pages**
There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).
- Press **TELETEXT** (if Teletext is not on already) and **MENU** to show the TELETEXT MENU display.
 - Select **PRESET USER PAGES** with **>+** or **?-** and press OK.
 - Select the desired bank with **>+** or **?-** and press OK. The cursor will go to the first position (P1) of the preferred pages.
 - Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
 - Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
 - Select **Allocate Bank** with **>+** or **?-** and press OK.
 - Select the programme position for which you have preset pages with **>+** or **?-** and press OK. (See Fig. 45.)
 - Select the desired bank with **>+** or **?-** (Banks A to E are available) and press OK.
 - Repeat steps 3 to 8 for the other 4 banks available.

- Displaying User Pages**
- Select **MENU**.
 - Select **User Pages** with **>+** or **?-** and press OK. A table of the stored preferred pages will be displayed. (See Fig. 46)
 - Select the desired page with **>+** or **?-** and press OK. The page will be displayed after some seconds.

or
You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P2 to the green one, P3 to the yellow one and P4 to the blue button.
To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

PRESET USER PAGES						
BANK	P1	P2	P3	P4	P5	P6
A	300	255	456	234	200	179
B	200	120	301	303	550	345
C	100	220	300	444		
D	128	321	255			
E	400	238	240	118	127	
Allocate Bank						
PROG	LABEL	BANK	PROG	LABEL	BANK	
00	VHS	-	04	MTV	D	
01	BBC1	A	05	SKY	B	
02	BBC2	C	06	ITV	C	
Select	↵ and press OK					

Fig. 45



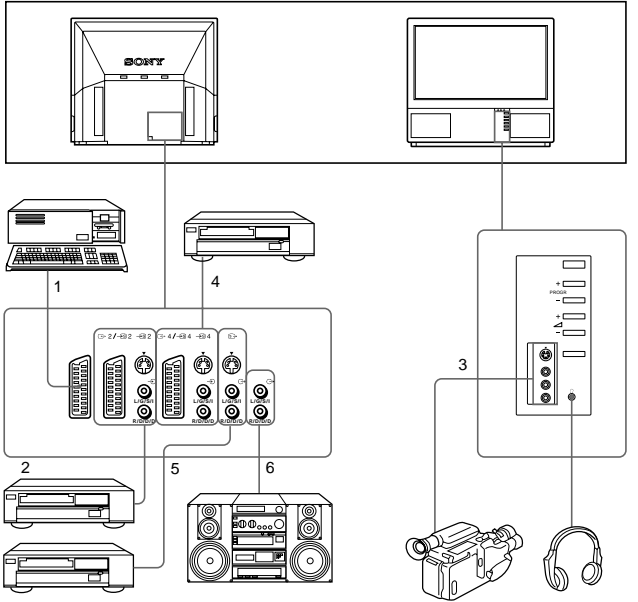
USER PAGES - BANK B												
■	PAGE	300										
□	PAGE	200										
□	PAGE	203										
□	PAGE	500										
□	PAGE	234										
□	PAGE	159										
<hr/>												
Select   and press OK												

Fig. 46

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VCR, video disc player, and stereo system.



To connect a VCR using the **Y terminal**
Connect the aerial output of the VCR to the aerial terminal **Y** of the TV. We recommend that you tune in the video signal to programme number "0." For details see "Preset channels manually" on page 9.

If the picture or the sound is distorted
Move the VCR away from the TV.

S/video Input (Y/C input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S Video input jacks through which these separated signals can be input directly.

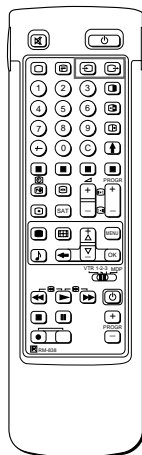
When connecting a monaural VCR
Connect only the white **⊖** jack to both the TV and VCR.

Note on playing video games:
Games that involve shooting at the screen with an electronic gun or similar device cannot be played with this TV.

Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S/video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal

Selecting input with PROGR +/- or number buttons

You can preset video input sources to the programme positions so that you can select them with PROGR +/- or number buttons. For details, see "Preset channels manually" on page 9.



Selecting Input and Output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press repeatedly to select the input source. The symbol of the selected input source will appear.

To go back to the normal TV picture

Press .

Input modes

Symbol	Input signal
	Audio/video input through the 1 connector
	Audio/RGB input through the 1 connector
	Audio/video input through the 2/ 2 connector
	Audio/S video input through the 2/ 2 or 2 connector (4-pin connector)
	Audio/video input through 3 and 3 connector on the front
	S video input through the 3 connector (4-pin connector) at the front
	Audio/video input through the 4/ 4 connector
	S video input through the 4/ 4 or 4 connector(4-pin connector)

You can also select the input mode using the button on the TV.

Selecting the output

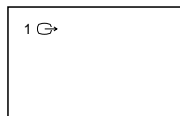
The 2/ 2 connector outputs the source input from the other connectors.

Press repeatedly to select the output.

The symbol of the selected output source appears.

Output modes

Symbol	2/ 2 connector outputs
1	Audio/video signal from the 1 connector
2	Audio/video signal from the 2/ 2 connector
2	Audio/S video signal from the 2/ 2 or 2 connector (4 pin)
3	Audio/video signal from the 3, 3 connectors
3	Audio/S video signal from the 3, 3 connectors
4	Audio/video signal from the 4/ 4 connector
4	Audio/S video signal from the 4/ 4 or 4 connector (4 pin)
TV	Audio/video signal from the aerial terminal



Using AV Preset

Using this function you can preset the desired input source (e.g. 1, RGB signal) to the respective AV input (AV 1). In this way a connected VTR will automatically switch to the RGB signal.

- Select the for "Preset" with >+ or ?- and press OK.
- Select first "Installation", then "AV Preset" with >+ or ?- and press OK.
The AV PRESET menu appears (See Fig. 47).
- Select the desired AV input with >+ or ?- and press OK.
- Select the desired source with >+ or ?- and press OK.
For the respective AV inputs you have the following possibilities:

AV1	RGB or AV	AV3	YC3 or AV
AV2	YC2 or AV	AV4	YC4 or AV
- If you want to name the AV input select "Label" using >+ or ?- and press OK. Select a letter or a number with >+ or ?- and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK.
After having selected all the characters, press OK repeatedly until the cursor appears by the next AV input at the left margin.
- Repeat steps 3 to 6 for the other AV inputs.

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PAP screen, and which output source is selected. You can also select them on the menu display.

- Select the symbol for "Video Connection" with >+ or ?- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 48)
You can see which source is selected for the TV and PAP input, and for the output. If you want to select the input and output on this menu, go on to the next step.
- Select TV Screen (input source for the TV screen), PAP (input source for the PAP screen), or output (output source) with >+ or ?- and press OK. One of the source items changes colour.
- Select the desired source with >+ or ?-.
For details about each source, see the table on page 24.
- Press OK.
The selected source is confirmed, and the cursor appears.
- Repeat steps 2 to 4 to select the source for other inputs or outputs.

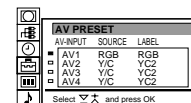


Fig.47

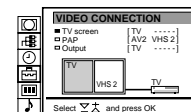


Fig. 48

26

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: beta, 8 mm and VHS VCRs and video disc players.

- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

2 Use the buttons indicated in the illustration to operate the additional equipment.
If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

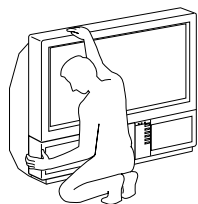
Cleaning of the Air Filter

Periodic cleaning of the air filter is necessary. Clean the air filter once a month. When the filter becomes old and dust remains on the filter even after cleaning, replace it with a new one.

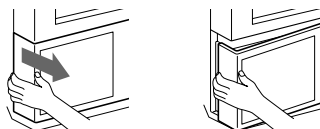
- Clean the air filter periodically. If you don't clean, it may cause internal heat build-up.
- Never use an air filter which is torn or has holes. Attach the filter firmly with six tabs. If dust enters the TV, the picture may become dark.

1 Turn off the power and disconnect the power cord.

2 Remove the front panel.

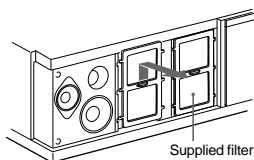


Remove the front panel without moving the TV.

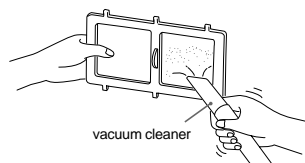


Grasping the side of the front panel with your fingers, pull it forward. Be careful not to catch your fingernails.

3 Pull the filter upward and remove it.

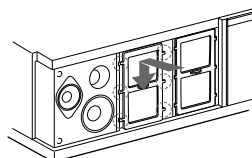


4 Clean the dust with a vacuum cleaner.



5 Attach the filter.

Attach the six tabs securely.



6 Attach the front panel.

Be careful not to damage the speaker.

Notes

- Attach the filter firmly. If it is not firmly attached, the power will not turn on.
- Remove the supplied filter in the same way as the attached filter.
- Consult your nearest Sony service center to obtain a new filter.

Replacing the Lamp

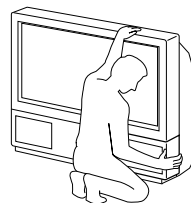
When the lamp becomes dark or the picture colour is not normal, replace with a new lamp.

- Use the lamp XL-100E for replacement. If you use another lamp, it may cause damage to the TV.
- Do not remove the lamp except when replacing it.
- Before replacing the lamp, turn off the power and disconnect the power cord.
- Replace the lamp after it becomes cool. The front glass of the lamp remains 100 °C (212 °F) and more even 30 minutes after the power is turned off.
- Do not place the removed lamp in proximity to children or flammable material.
- Do not get the removed lamp wet, or insert objects inside the lamp. It may cause the lamp to explode.
- Do not place near metal or easily flammable objects, as this may cause fire. Also, do not put your hand inside the lamp compartment, as you may be burned.
- Attach the new lamp firmly. If it is not firmly attached, the picture may become dark.

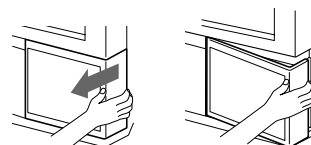
1 Turn off the power and disconnect the power cord.

Replace the lamp 30 minutes or more after the power is turned off. Prepare the new lamp.

2 Remove the front panel.

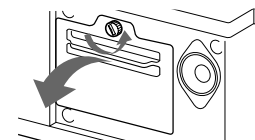


Remove the front panel without moving the TV.



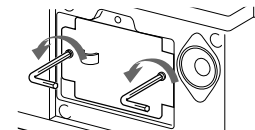
Grasping the side of the front panel with your fingers, pull it forward. Be careful not to catch your fingernails.

3 Loosen the screw with the object such as a coin and remove the lamp cover.

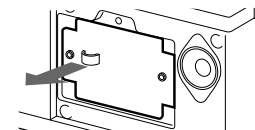


4 Loosen two screws and pull out the lamp.

The lamp is still too hot just after the power is turned off. Be careful that you don't touch the front glass or surrounding area of the lamp or the glass of the lamp compartment.



Loosen two screws with the supplied wrench.



Pull out the lamp by the handle.

5 Attach the new lamp.

Fasten two screws tightly.

6 Attach the lamp cover.

Fasten the screws tightly.

7 Attach the front panel.

Be careful not to damage the speaker.

Notes

- Do not touch or stain the front glass of the new lamp or the glass of the lamp compartment. If the glass becomes dirty, the picture quality may deteriorate or the lamp life may shorten.
- Attach the lamp cover firmly. If it is not firmly attached, the power will not turn on.
- When the lamp burns out, a noise is audible. This does not represent a damage.
- Consult your nearest Sony service center to obtain a new lamp.

Troubleshooting

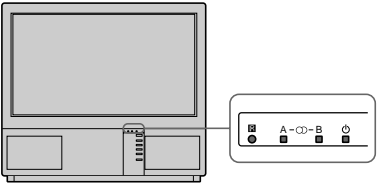
Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none">• Plug in the TV in.• Press ⏻ on the TV (if ⏻ indicator is on, press ⏻ or a programme number on the Remote Commander).• Check the aerial connection.• Check if the selected video source is on.
Poor or no picture (screen is dark), but sound is OK	<ul style="list-style-type: none">• Press ⏻ to enter the PICTURE CONTROL menu and adjust the brightness, contrast and colour.
Poor picture quality when watching an RGB video source	<ul style="list-style-type: none">• Press ⏻ repeatedly to select RGB.
Good picture but no sound	<ul style="list-style-type: none">• Press ⏻ +.• If ⏻ is displayed on the screen, press ⏻.
No colour for colour programmes	<ul style="list-style-type: none">• Press ⏻ to enter the PICTURE CONTROL menu, select RESET, then press OK.
Remote Commander does not function	<ul style="list-style-type: none">• The batteries are weak.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Warning Indicators

When a problem occurs, the indicator flashes as follows. Attempt the solution recommended for the given problem. When a problem occurs while operating the set, the **⏻** (standby) indicator flashes first and then warning will be indicated.



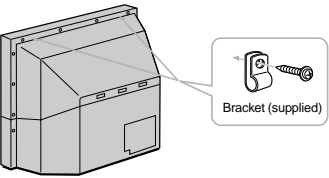
Cause	Indicator flashing patterns
The lamp burns out or the quality of the lamp is deficient.	The B indicator flashes twice then A flashes once. Flashing continues in this manner.
The cover of the filter or the lamp is removed.	The B indicator flashes three times then A flashes once. Flashing continues in this manner.
The fan for cooling stops.	The B indicator flashes four times then A flashes once. Flashing continues in this manner.
Internal heat builds up.	The B indicator flashes five times then A flashes once. Flashing continues in this manner.

If the lamp flashes in a way not described above, consult your nearest Sony service center.

Stabilizing the Projection TV

After setting up, secure the projection TV to a wall, etc., with the supplied brackets, for safety purposes.

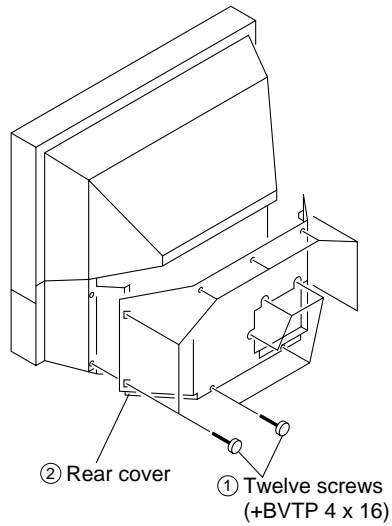
- 1 Mount the two supplied brackets with the screws to the upper rear side of the projection TV.



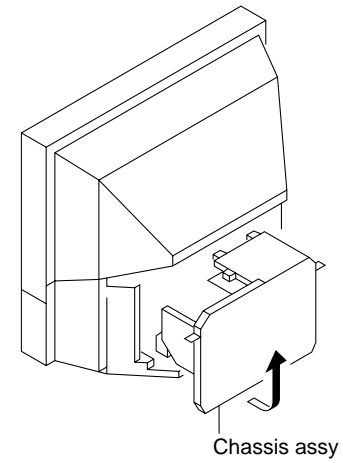
- 2 Pass a strong cord or a chain through each bracket mounted in 1, and then secure to a wall or a pillar, etc.

SECTION 2 DISASSEMBLY

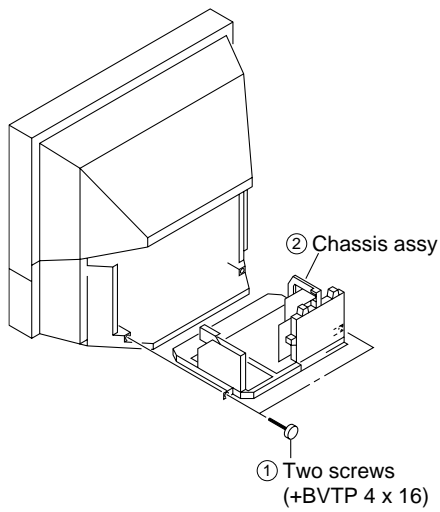
2-1. REAR COVER REMOVAL



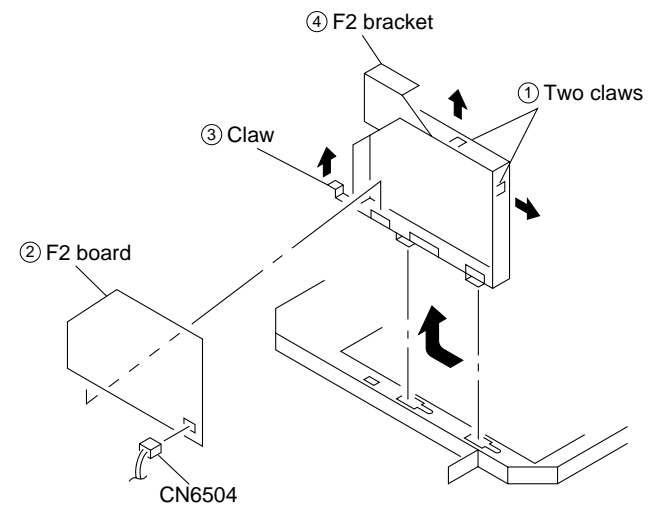
2-3. SERVICE POSITION



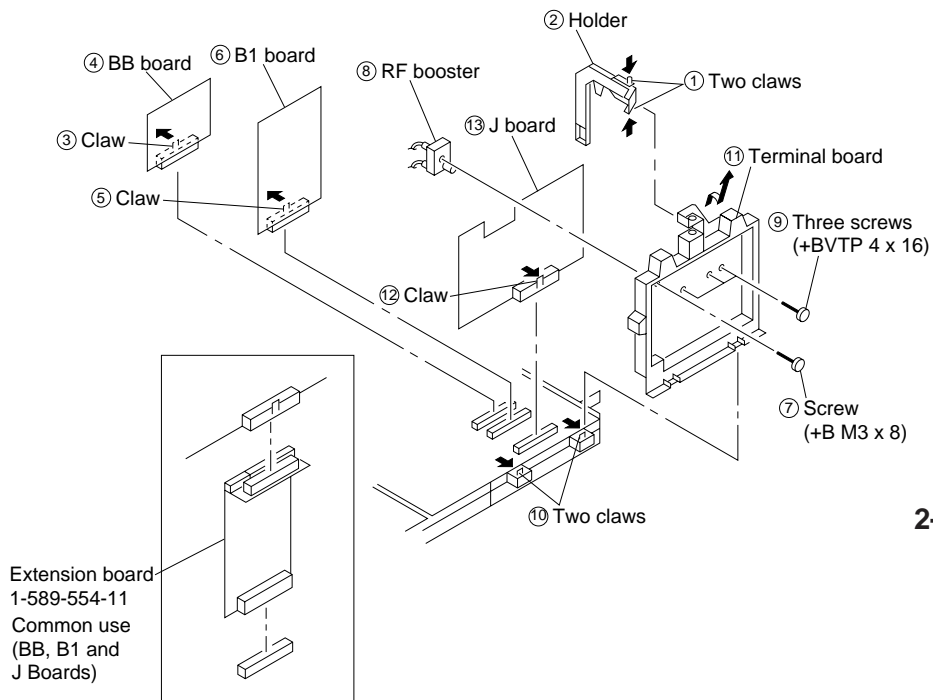
2-2. CHASSIS ASSY REMOVAL



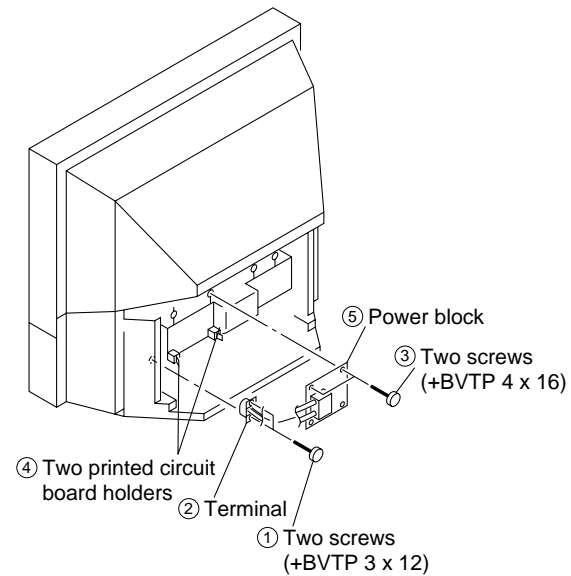
2-4. F2 BOARD AND F2 BRACKET REMOVAL



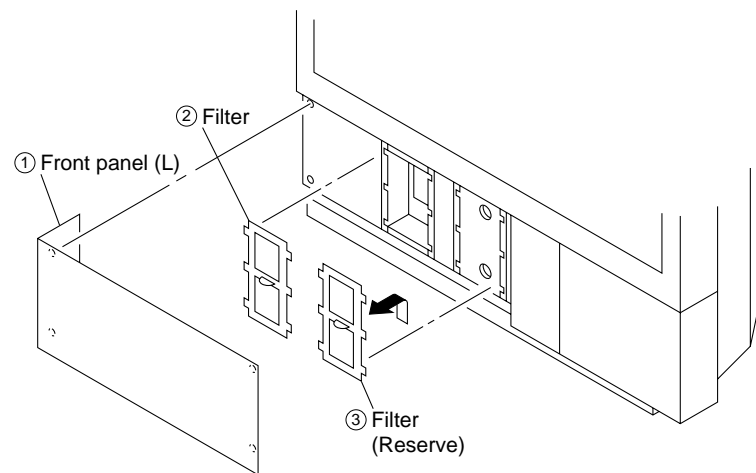
2-5. BB, B1 AND J BOARDS REMOVAL (EXTENSION BOARD)



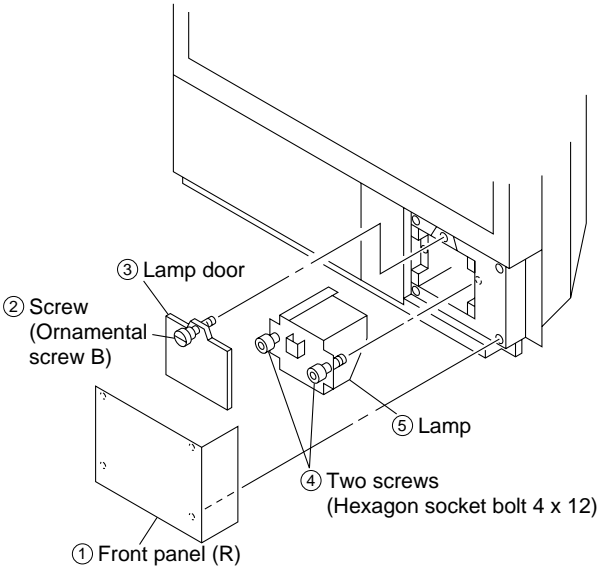
2-6. POWER BLOCK REMOVAL



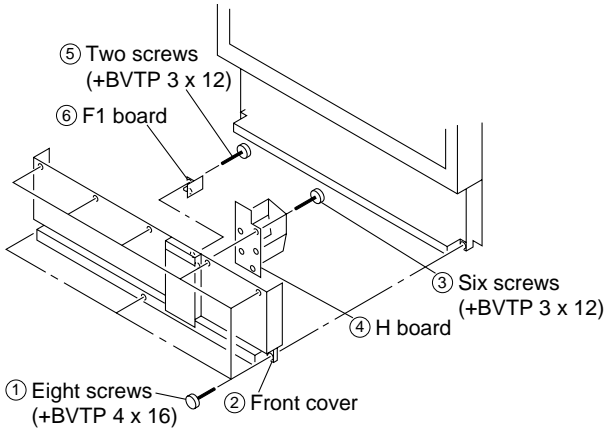
2-7. FILTER REMOVAL



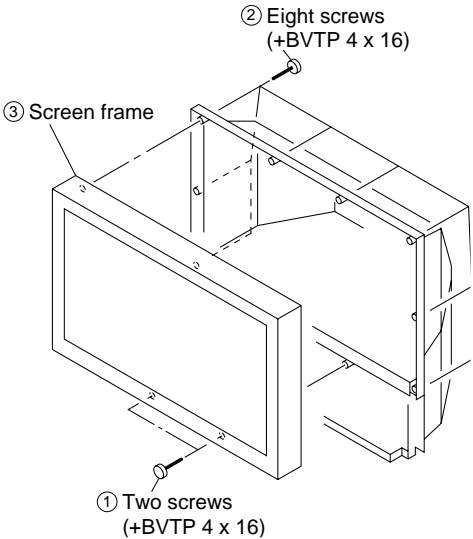
2-8. LAMP REMOVAL



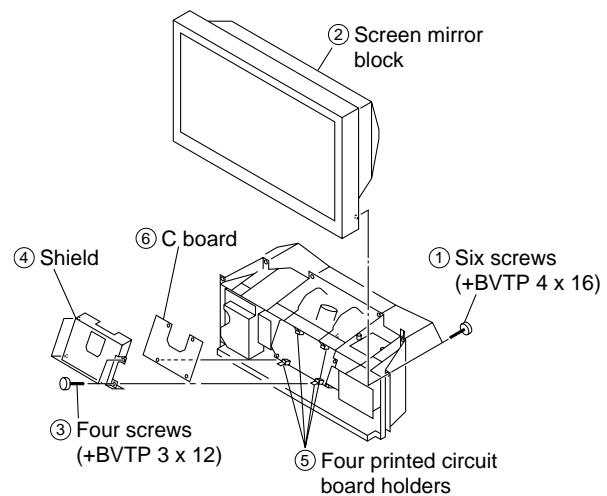
2-9. H AND F1 BOARDS REMOVAL



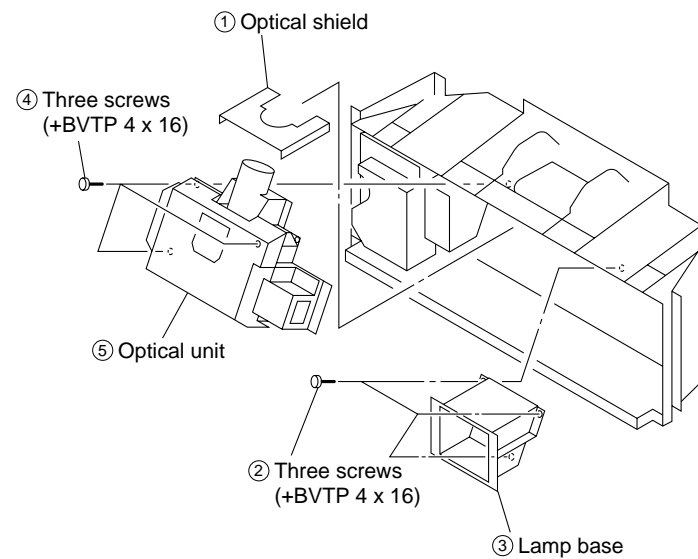
2-10. SCREEN FRAME REMOVAL



2-11. C BOARD REMOVAL



2-12. OPTICAL UNIT REMOVAL



SECTION 3

CIRCUIT ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-838.

HOT TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the + (plus) and – (minus) buttons on the customer front panel.

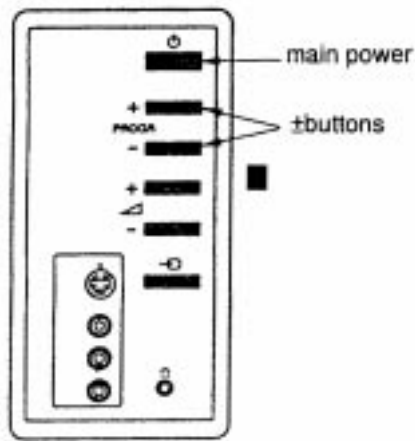


Fig. 4-1

2. “TT” will appear on the upper right corner of the screen.

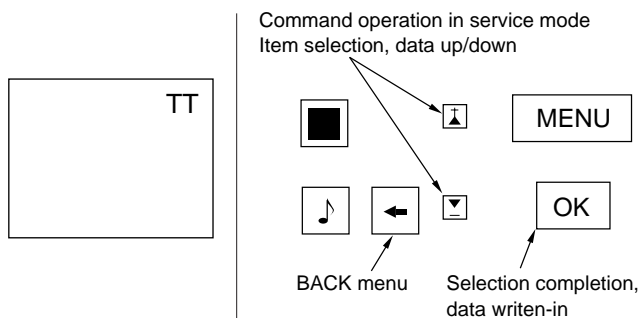


Fig. 4-2

Fig. 4-3

3. Press 01 on the commander to get the menu on screen.

Venus	V2.07	AE-3	12/03/96
○ Init			
○ Video Contr	CXA1839		
○ Scan Con.	CXD2428		
○ Video Proc M	CXD2030		
○ Timing Gen.	CXD2412		
○ RGB Interface	CXA2011		
○ PAP	CXD2031		
○ SRC	CXD2032		
○ TDA6812	TDA6812		
○ PALPLUS			

4. Press the ▲ and ▼ buttons on the remote commander to select the adjustment item.
5. Press the [OK] button to proceed to the next menu.
6. If the adjustment item is Video cont press the ▼ button to move to Video cont then press [OK] button.
7. The Menu as indicated in Fig will appear on the screen.

Video Cont. CXA1839

Item No.	Adjustment item	Data Amount
1	Sub BRT	[6]
2	Sub COL1	[15]
3	Sub CON1	[15]
4	PIC	[53]
5	HUE	[31]
6	COL	[31]
7	BRT	[31]
8	SHP	[31]
9	Sub HUE	[6]
10	D COL	[off]
11	SHP Lim	[off]
12	Age WHT	[off]
13	R-Y R	[8]
14	R-Y B	[13]
15	G-Y R	[11]

8. Press the ▼ button to move > to the adjustment item and press the [OK] button.
9. Press the ▲ and ▼ buttons to change the data in order to comply with each standard.
10. Press the [OK] button to write data into memory.
11. Turn off the power to quit the service mode when adjustments have been completed.

Scan Converter CXD2428

Item No.	Adjustment item	Data Amount
1	H-shift	[126]
2	V-shift	[14]
3	H-phase	[58]
4	V-phase	[31]
5	H-SZ-RD (40h)	[140]
6	H-SZ-RD (50h)	[3]
7	H-SZ-WR (41h)	[140]
8	H-SZ-WR (51h)	[3]
9	LN-DAT0	[0]
10	MD-DAT0	[3]
11	LN-DAT1	[0]
12	MD-DAT1	[0]
13	LN-DAT2	[0]
14	MD-DAT2	[0]
15	LN-DAT3	[0]

Video Proc M CXD2030

Item No.	Adjustment item	Data Amount
1	DNR	[on]
2	DNR value	[5]
3	TA Sync C1p pls width	[16]
4	TB BGP position	[50]
5	TD CLP position	[25]
6	Foto CD SW	[off]
7	BLK porch pos	[16]
8	NTSC TD BGP pos	[25]
9	PAL TD BGP pos	[25]
10	Not Secam TB BGP pos	[50]
11	Secam TB BGP pos	[50]
12	358 NR Level	[3]
13	443 NR Level	[5]
14	Color detect Mode	[0]
15	Extern Y/C	[off]

RGB Interface CXA2011Q

Item No.	Adjustment item	Data Amount
1	Drive Level	[48]
2	Sig Sel	[0]
3	Sub Bright	[23]
4	Sync Sel	[0]
5	Sync SW	[3]
6	ABL SW	[off]
7	AKB-T	[off]
8	HD Sync	[on]
9	R Drive	[31]
10	G Drive	[31]
11	B Drive	[31]
12	R Cutoff	[124]
13	G Cutoff	[124]
14	B Cutoff	[123]
15	Gamma Level	[0]

TIMING GENERATOR CXD2412QA

Item No.	Adjustment item	Data Amount
1	SLSH1	[on]
2	SLSH2	[off]
3	SLSH3	[on]
4	BH Bias	[252]
5	RH Bias	[252]
6	BL Bias	[112]
7	RL Bias	[122]

PAP CXD2031

Item No.	Adjustment item	Data Amount
1	Main phase WR start	[52]
2	Sub phase WR start	[20]
3	Main RD start	[43]
4	Brightness sub	[8]
5	Twin pic	[on]
6	WR inhibit1	[off]
7	WR inhibit0	[off]
8	RD inhibit0	[off]

SRC CXD2032

Item No.	Adjustment item	Data Amount
1	YCD	[0]
2	YDF	[0]
3	COF	[0]
4	Reference clamp	[0]
5	Offset	[off]
6	IIR latch	[off]
7	BGP Sync SW	[0]
8	Clamp	[off]
9	50/60	[off]
10	Reference clamp	[32]
11	Offset Level	[0]
12	System Delay	[9]
13	Offset Level	[0]
14	FVSW	[on]
15	Mask SW	[on]

TDA 6812

Item No.	Adjustment item	Data Amount
1	Stereo-sep	[15]
2	Pre-Volume	[2]
3	Treble-offset L/R	[0]
4	Bass-offset L/R	[0]
5	Treble-offset C/S	[255]
6	Bass-offset C/S	

3-2. TEST MODE

Is available by pressing the Test button twice, OSD “TT” appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20...twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and –) during Power ON will also switch into “TT” mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	no function
03	Set Volume to 30 %
04	Service Menu in “Service Mode”
05	Service Menu in “Production Mode”
06	Set Volume to 80 %
07	Aging mode
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same pressettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35 %, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for W28 models, Menu Language Reset, Prog. Pointer table reset Non Interface is allowed in Text mode.
09	Language reset. With this function the Menu Language is set to “unselected” (NVM Bank OAAH Adress ODCH). The value for the Language Group is not overwritten (Selection West/East/Common). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept
11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)
13	Display of Software Version and TV set configuration
14	Production Info Display
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data: 1. Last Power memory data. This data is sent continously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears. 2. Reset data. By pressing “Reset” in the menu this data is transferred from Reset Data location to the Last Power data location in the NVM. That means the previous Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data are now the same.

15	3. Factory fixed data. In the ROM code of the micro processor are also analogue datas which are fixed (ROM can't be changed)
16	Save actual Last Power Memory data at Reset Data location (The previous Reset data is overwritten)
15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)
17	This functions presets the Labels for the AV sources: The Labels are AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
20	see TT10
21	no function
22	Operating Timer and Error Monitor display
23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
24	Direct access to Sub Color. With Cursor Up/Down the Sub Color can be adjusted.
25	Status menu display (SubController, CXA1840 Status, Main Controller.)
26	Text Character set selection (Char set 06 -> West Europe)
27	Text Character set selection (Char set 38 -> East Europe)
28	Text Character set selection (Char set 40 -> West Europe) US English
29	Text Character set selection (Char set 55 -> West Europe) Turkish
30	see TT10
31	Increase V-Aperture
32	Decrease V-Aperture
33	no function
34	no function
35	no function
36	Mtx Register 112 = intern display clock
37	Mtx Register 112 = extern display clock
38	Automatic selection of Screen Modes: 4:3 -> Zoom -> Zoom up -> Zoom down -> smart -> wide.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in “Programme Sorting Menu” is reset.
40	see TT10

41	Picture min
42	no function
43	no function
44	no function
45	Set NVM to Protect mode (Bank 0AEH Adr. 0FFH write with 0)
46	IR Channel Presetting Mode. The channel presetting can be done by a Special IR transmitter (Deatiled INFO about IR transmitter from SEC) Sequence: TT46 -> --PR Number select display appears Select Prog. No from where the channel shall be stored. --> Now TV is waiting for IR sequence <-- --> If no IR transmission starts TT46 is released after 20 secs <-- !Note: When TT46 is active, any transmission will be interpreted as PROG data !
47	Direct access to Headphone Source Selection with Cursor Up/Down the Source of Headphone can be selected (w/o OSD, Menu display)
48	no function
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (exept channel tables) are overwritten. EEPROM Protection byte is set to 0 protection mode
50	see TT10
51	Strobo mode is activated.
52	no function
53	no function
54	no function
55	MTX Slicer Control "Low Pass" (only Sys L))
56	MTX Slicer Control "No Compensation"
57	Megatext Service Menu ON
58	MTX Small Framing Code Window
59	MTX Wide Framing Code Window
60	see TT10
61	no function
62	ACI disable.
63	ACI enable.
64	Reset all IIC Slave commands
65	Reset stored error codes in NVM.
66	Reset for Sub Controller.
67	Direct access to Headphone Volume. With cursor Up/Down the Headphone volume can be controlled (w/o OSD, menu display)
68	ignore errors.
69	reset ignore errors (show errors)
70	see TT10
71	Picture Rotation Function On/Off toggle.
72	no function
73	Megatext RGB textlevel one step decreased
74	Megatext RGB textlevel one step decreased
75	reserved for TT command Network ID, not implemented yet

76	CXD2030 Default data setting.
77	CXD 2031 Default data setting.
78	CXD 2032 Default data setting.
79	CXD 2428 Default data setting.
80	see TT10
81	Default data setting CXA2011
82	no function
83	no function
84	CXA 1839 Default data setting
85	Default data setting CXD 2412
86	no function
87	Default data setting CXD 2030
88	Text character set Russian/East
89	Text character set Russian/West
90	see TT10

3-3. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM
- Actual error

Erroe Monitor
<p>Operating Time 000355 h 35min</p> <p>Saved Errors 1. 40h=D1 Board 2. 60h=Q Board 3. 70h=T Board 4. 00h=no error occurred 5. 00h=no error occurred</p> <p>Actual Error -> 00h=no error occurred</p>
to reset the NVM press 'TT' 65

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an I²C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu.

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

TABLE OF ERROR CODES

Error Code	Device	Description	Board
000h	no device	no error has occurred	—
001h	IIC 1 and IIC 2	IIC 1 and IIC 2 blockaded	—
002h	IIC 1	IIC 1 is blockaded	—
003h	IIC 2	IIC 2 is blockaded	—
010h	A Board	A Board is defective	—
020h	A1 Board	A1 Board is defective	—
030h	BX-Board (B, B1, B2)	B, B1, or B2 Board is defective	—
040h	D1 Board	D1 Board defect	—
050h	J Board	J Board defect	—
060h	Q Board	Q Board defect	—
070h	T Board	T Board defect	—
011h	CXP85332	No response from the Subcontroller	A
012h	ST24C16	No response from the NVM	A

Error Code	Device	Description	Board
013h	SDA5273	No response from the Megatext IC	A
014h	TDA6812	No response from the Sound Processor	A
015h	SAA7283	No response from the Nicam Decoder	A
016h	UV916H	No response from the Main Tuner	A
017h	CXA1839Q	No response from the Video Controller	A
018h	CXA1840	No response from the CRT Driver	A
019h	RGB8443	No response from RGB/YUV	A
021h	TDA6622	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No reponse from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/B1
034h	CXD2033R	No response from the Picture in Picture IC.	B
035h	CXD2035R	No response from the Aspect Converter.	B/B1
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/ TSA5526	No response from the Subtuner.	T
072h	CXA1875	No response from the Port Expander.	T

3-4. REGISTRATION ADJUSTMENT

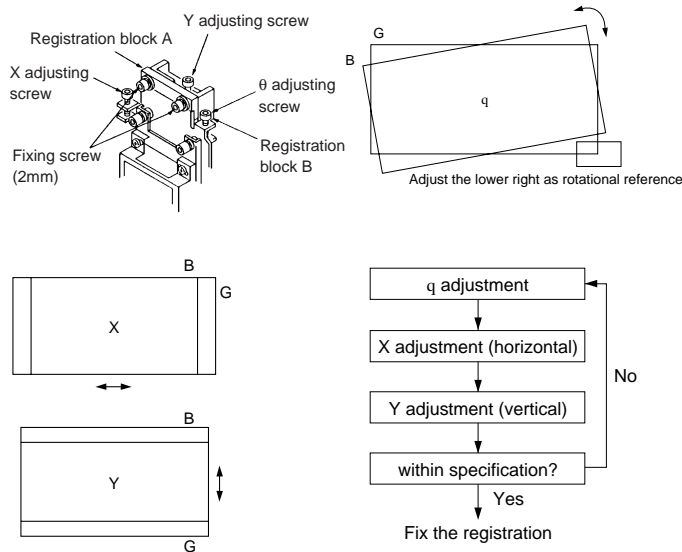
Preparation

- Aspect ratio 16:9
- Image quality adjusting menu Standard

Note: In adjusting the registration, the registration fixing block is secured with an adhesive, and therefore the PANEL BLOCK ASSY is required.

- Tools and Kit
Hex. wrench keys (2 mm, 1.5 mm)
PANEL BLOCK ASSY (Refer to SECTION 5. EXPLODED VIEWS)

1. Entering G monochrome crosshatch signal or B monochrome crosshatch signal, adjust the registration between B and G. Overlay B image on the G image as shown, while turning the registration adjusting screws in the order of $\theta \rightarrow X \rightarrow Y$.
2. Enter full black signal to the B panel, then the R monochrome crosshatch signal to adjust the registration of R and G.
3. Tighten tentatively the registration fixing screws on the R and B panels, and secure the registration blocks A and B with an adhesive.
4. Tighten the registration fixing screws.



LENS FOCUS ADJUSTMENT

1. Loose screw of LENS focus.
2. Adjust LENS focus so that best focus.

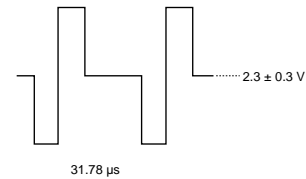
3-5. C BOARD ADJUSTMENT

1. PLL f0 Adjustment

(1) WIDE Mode

- 1) Change to "WIDE Mode".
- 2) Input to monoscope signal.
- 3) Change "H. SYNC input" CN5202 1pin input to open (no signal).
- 4) Connect 100 Ω resistor between 2pin of IC5004 and TP5009, then connect frequency counter to 1pin of IC5004.
- 5) Turn L5002 and adjust to 13.67 ± 0.1 MHz.
- 6) Input H. SYNC for PAL double speed.
- 7) Confirm that the waveform for TP5007 <RPD2> shall be Fig.

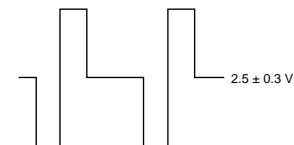
13.67 ± 0.1 MHz



(2) 4:3 Mode

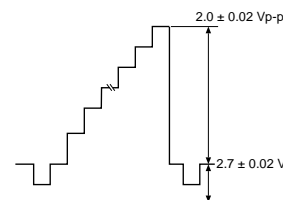
- 1) Change to "4 : 3 Mode".
- 2) Input to monoscope signal.
- 3) Change H. SYNC CN5202 1pin input to open (no signal).
- 4) Connect 100 Ω resistor between 2pin of IC5004 and TP5009, then connect frequency counter to 1pin of IC5004.
- 5) Turn L5004 and Adjust to 10.22 ± 0.05 MHz.
- 6) Input H. SYNC for PAL double speed.
- 7) Confirm that the waveform of TP5004 <RPD1> shall be Fig.

10.22 ± 0.05 MHz



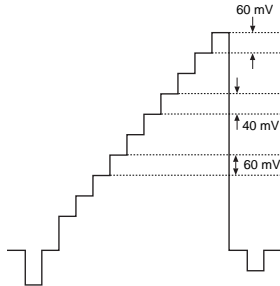
2. r curve adjustment

- (1) Change to "WIDE Mode".
- (2) Input PAL double speed signal 10 step.

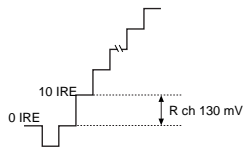


(3) R ch

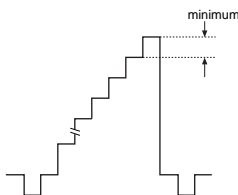
- 1) Connect Oscilloscope to TP5201 <R>.
- 2) Add 2.25 ± 0.02 V to TP5211 <RLBS>
 3.95 ± 0.02 V to TP5210 <RHBS>
by DC power supply.
- 3) Confirm that the signal level under 10 IRE and above 80 IRE is increased with above condition.



- 4) Adjust RV5201 <RL, GAIN> so that signal level of "0 IRE ~ 10 IRE" might be 130 ± 10 mV.



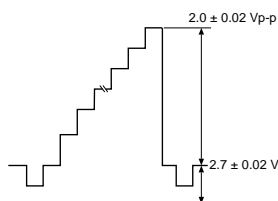
- 5) Turn RV5209 <RH GAIN> to the left direction by aplox 150° and adjust so that "90 IRE ~ 100 IRE" might be minimum.



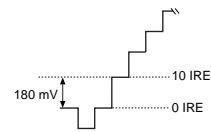
(In Case that "100 IRE ~ GND" is above 3.7 V ; Adjustment is N.G)

(4) G ch

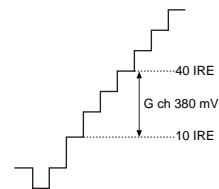
- 1) Connect Oscilloscope to TP5401 <G>.
- 2) Add 2.25 ± 0.02 V to TP5411 <GLBS>
 3.95 ± 0.02 V to TP5410 <GHBS>
by DC power supply.
- 3) Confirm that the signal level under 10 IRE and above 90 IRE is increased with above condition.



- 4) Turn RV5401 <GL, GAIN> to the right direction and adjust so that "0 IRE ~ 10 IRE" might be 180 ± 10 mV.

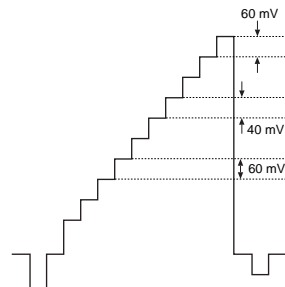


- 5) Change TP5411 <GLBS>, TP5410 <GHBS> to OPEN.
- 6) Turn RV5402 <GL, BIAS> to the left direction and adjust so that "10 IRE ~ 40 IRE" might be 380 ± 10 mV.

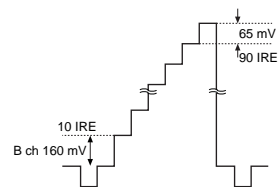


(5) B ch

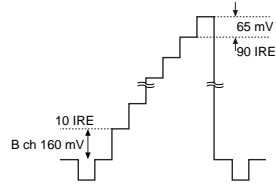
- 1) Connect Oscilloscope to TP5601
- 2) Add 2.20 ± 0.02 V to TP5611 <BLBS>
 3.95 ± 0.02 V to TP5610 <BHBS>
by DC power supply.
- 3) Confirm that the signal level under 10 IRE and above 80 IRE is increased with above condition



- 4) Turn RV5601 <BL, GAIN> to the right direction and adjust so that "0 IRE ~ 10 IRE" might be 160 ± 10 mV

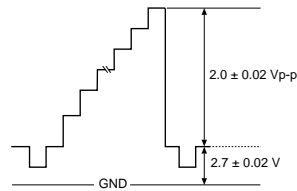


- 5) Turn RV5609 <BH, GAIN> and adjust so that “90 IRE ~ 100 IRE” might be “ 65 ± 10 mV” (RV5609 can be adjusted at mechanical center of the VR to obtain above metioned condition. In case that “100 IRE ~ GND” is above 3.7 V Adjustment is N.G)

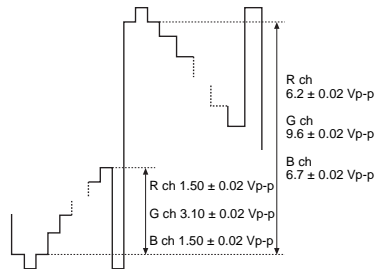


(6) IC level adjustment (R ch)

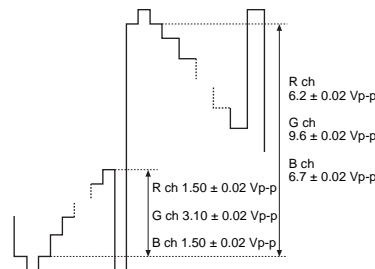
- 1) Change to “WIDE Mode”.
- 2) Input PAL double speed signal 10 step waveforms.



- 3) Add 0 V to TP5211 <RLBS> and 9 V to TP5210 <RHBS> by DC power supply.
- 4) Adjust the level by RV5205 <R-GAIN> as “0 IRE ~ 100 IRE” on TP5203 <R-sig2> is 1.50 ± 0.02 Vp-p.

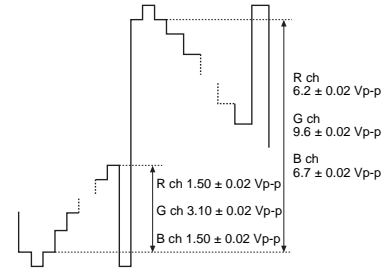


- 5) Adjust by RV5206 <R-BIAS> so that “Positive polarity 0 IRE ~ Negative polarity 0 IRE” might be 6.2 ± 0.02 Vp-p.



- 6) By RV5203 <R-S, GAIN1>, RV5207 <R-S, BIAS1>, adjust the waveform for TP5202 <R-sig1> to the waveform TP5203 <R-sig2>. (within ± 0.02 V)

- 7) By RV5204 <R-S, GAIN2> & RV5208 <R-S, BIAS2>, adjust the waveform for TP5204 <R-sig3> to the waveform for TP5203 <R-sig2>. (within ± 0.02 V)



- 8) Confirm that the waveform for TP5203 <R-sig2> is within standard mentioned.

(7) IC Level Adjustment (G ch)

- 1) Proceed 4) ~ 8) by the same way as R ch.
- 2) Procedure 3) to add external voltage must not be done. As for “related VR” and “output terminal” please refer to the Fig.

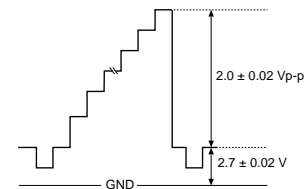
(8) IC Level Adjustment (B ch)

- 1) Proceed 3) ~ 8) by the same way as R ch. As for “related VR” and “output terminal” please refer to the Fig.

	R ch	G ch	B ch
-Sig 1	TP5202	TP5402	TP5602
-Sig 2	TP5203	TP5403	TP5603
-Sig 3	TP5204	TP5404	TP5604
LBS	TP5211	TP5411	TP5611
HBS	TP5210	TP5410	TP5610
-GAIN	RV5205	RV5405	RV5605
-BIAS	RV5206	RV5406	RV5606
-S.GAIN 1	RV5203	RV5403	RV5603
-S.BIAS 1	RV5207	RV5407	RV5607
-S.GAIN 2	RV5204	RV5404	RV5604
-S.BIAS 2	RV5208	RV5408	RV5608

(9) V com Adjustment

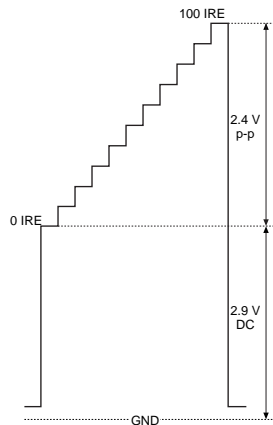
- 1) Change to “WIDE Mode”.
- 2) Input PAL double speed signal 10 steps waveform.



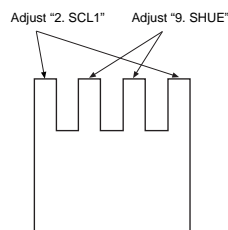
- 3) Measure the voltage on TP5203 (R ch out).
- 4) Adjust RV5211 <RVCOM> so that the voltage on TP5205 <R-V comout> might be $-0.6 \text{ V} \pm 0.02 \text{ V}$.
- 5) Measure the voltage on TP5403 (G ch out).
- 6) Adjust RV5411 <GVCOM> so that the voltage on TP5405 (G-V com out) might be $-0.5 \pm 0.02 \text{ V}$.
- 7) Measure the voltage on TP5603 (B ch out).
- 8) Adjust RV5611 <BVCOM> so that the voltage on TP5605 <R-V com out> might be $-0.8 \text{ V} \pm 0.02 \text{ V}$.

3-6. A BOARD ADJUSTMENT

- (1) Pre-adjustment on "2G" output level.
 - 1) Change following two data as follows.
CXA1839 "22 DC Tran" 1 \rightarrow 0
"23 Dyn PIC" 2 \rightarrow 0
 - 2) Input 10-step swaveform on 1 Vpp (75 Ω terminated value) to Video 1 input.
 - 3) Set picture control to RESET.
 - 4) Adjust CXA1839Q "3. Sub-CON1" so that the level from 0 IRE to 100 IRE on TP1002 "2G" can approach to 2.4 Vp-p the most.
 - 5) Adjust CXA1839Q "1. Sub-BRT" so that the level of 0 IRE on "2G" can approach to 2.9 Vdc the most.

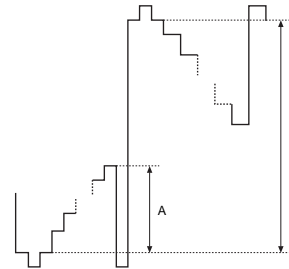


- (2) HUE, COLOR Adjustment
 - 1) Input 75 % full field color bar to Video INPUT 1.
 - 2) Adjust CXA1839Q "2. Sub COL1" so that the peak level for 2 pulse on both right and left side on TP1003 "2B" can be equal.
 - 3) Adjust CXA1839Q "9. Sub HUE" so that the peak level of 2 pulse in the center on "2B" can be equal.
 - 4) Return following two data.
CXA1839 "22 DC Tran: 0 \rightarrow 1
"23 Dyn PIC: 0 \rightarrow 1



3-7. SUB BRT, SUB PIX ADJUSTMENT

- (1) Sub BRT Adjustment
 - 1) Input 10 step signal to Video, 1 picture mode: smart
Setup as follows
PIX = 90 %
COL = 50 %
BRT = 50 %
SHP = 50 %
 - 2) Change two data as follows.
CXA1839 "22 DC Tran" 1 \rightarrow 0
"23 Dyn PIC" 2 \rightarrow 0
 - 3) Connect Oscilloscope to TP5403.
 - 4) Adjust B with CXA2011 "3. Sub Bright" as $8.2 \text{ V} \pm 0.02 \text{ V}$.
 - 5) Adjust A with CXA2011 "1. Drive Level" as $2.9 \text{ V} \pm 0.02 \text{ Vpp}$.
 - 6) Return following data as follows.
CXA1839 "22 DC Tran" 0 \rightarrow 1
CXA1839 "23 Dyn PIC" 0 \rightarrow 2



3-8. WHITE BALANCE ADJUSTMENT

- 1) Keep set with aging condition more than 15 min.
- 2) Change to following data.
CXA1839 "22 DC Tran" \rightarrow 0
"23 Dyn PIC" \rightarrow 0
CXD2412 "6. BL Bias" \rightarrow 00
"7. RL Bias" \rightarrow 00
- 3) Input 30 IRE flat field signal.
- 4) Adjust CXA2011 "12R cutoff" and "14B cut off" can be within standard. (CXA2011 "13G cutoff" so that cutoff white balance should be fixed to 124.)

Standard
X = 0.2952 with in 4JND
Y = 0.3047

- 5) Input 70 IRE flat filed signal.
- 6) Adjust CXA2011 "9R Drive" and "11B Drive" so that high light can be within standard. (CXA2011 "10G Drive" should be fixed by "31")

Standard
X=0.2952
Y=0.3047 with in 5JND

- 7) Repeat 3)~6) and trucking and adjust so that both 30 IRE, 70 IRE is within standard.

- 8) Input 20 IRE flat field signal.
- 9) Adjust with CXD2412 "7. RL Bias" or "6. BL Bias" so that can approach to adjusting center the most.

Adjustment Center

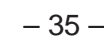
X=0.2952

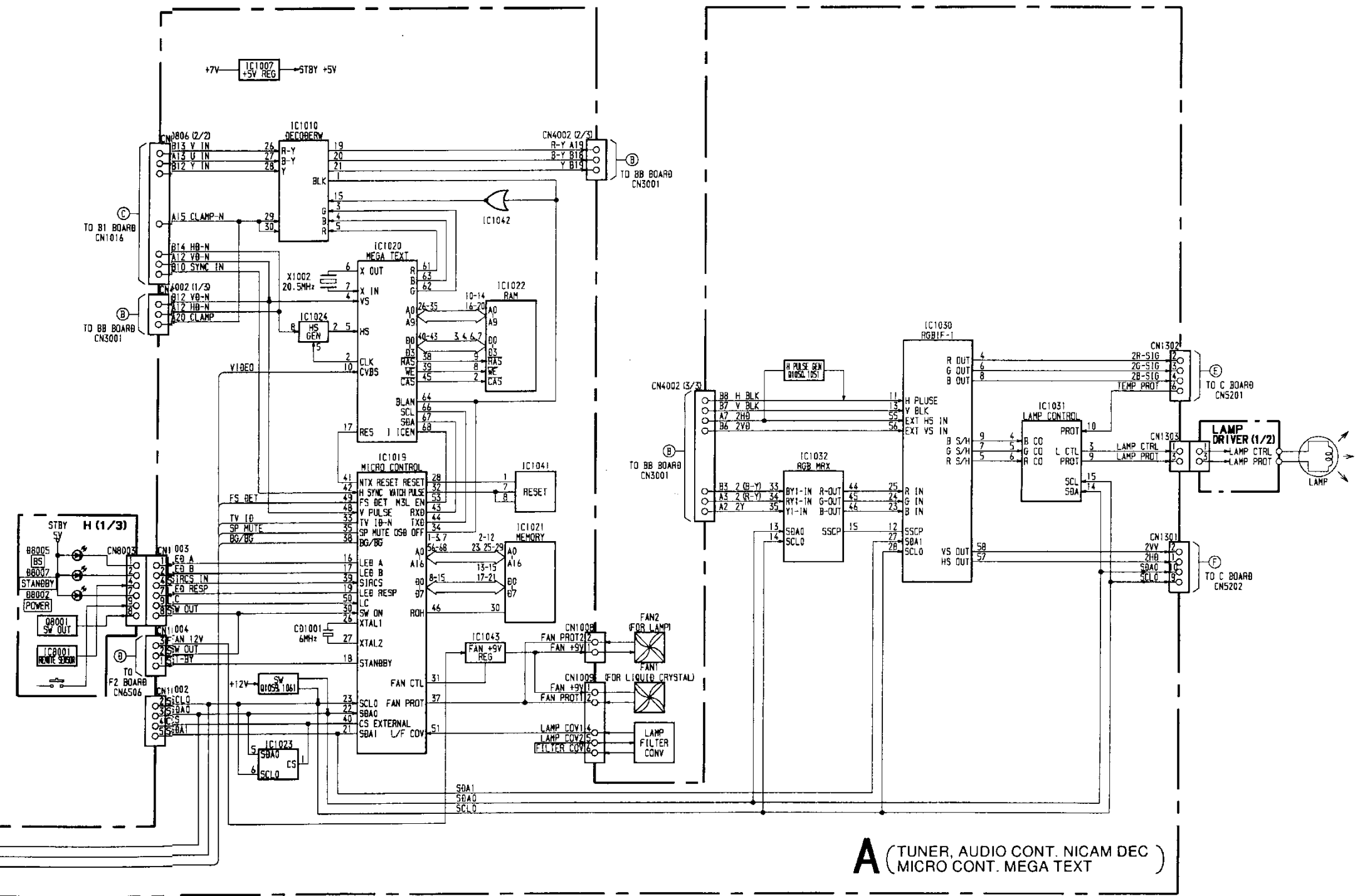
Y=0.3047

- 10) Return following two data.
CXA1839 "22. DC Tran" → 0
"23. Dyn PIC" → 2
- 11) Confirm that color from 0 to 100 IRE each steps on the screen should be uniform and it does not differ much from other part.

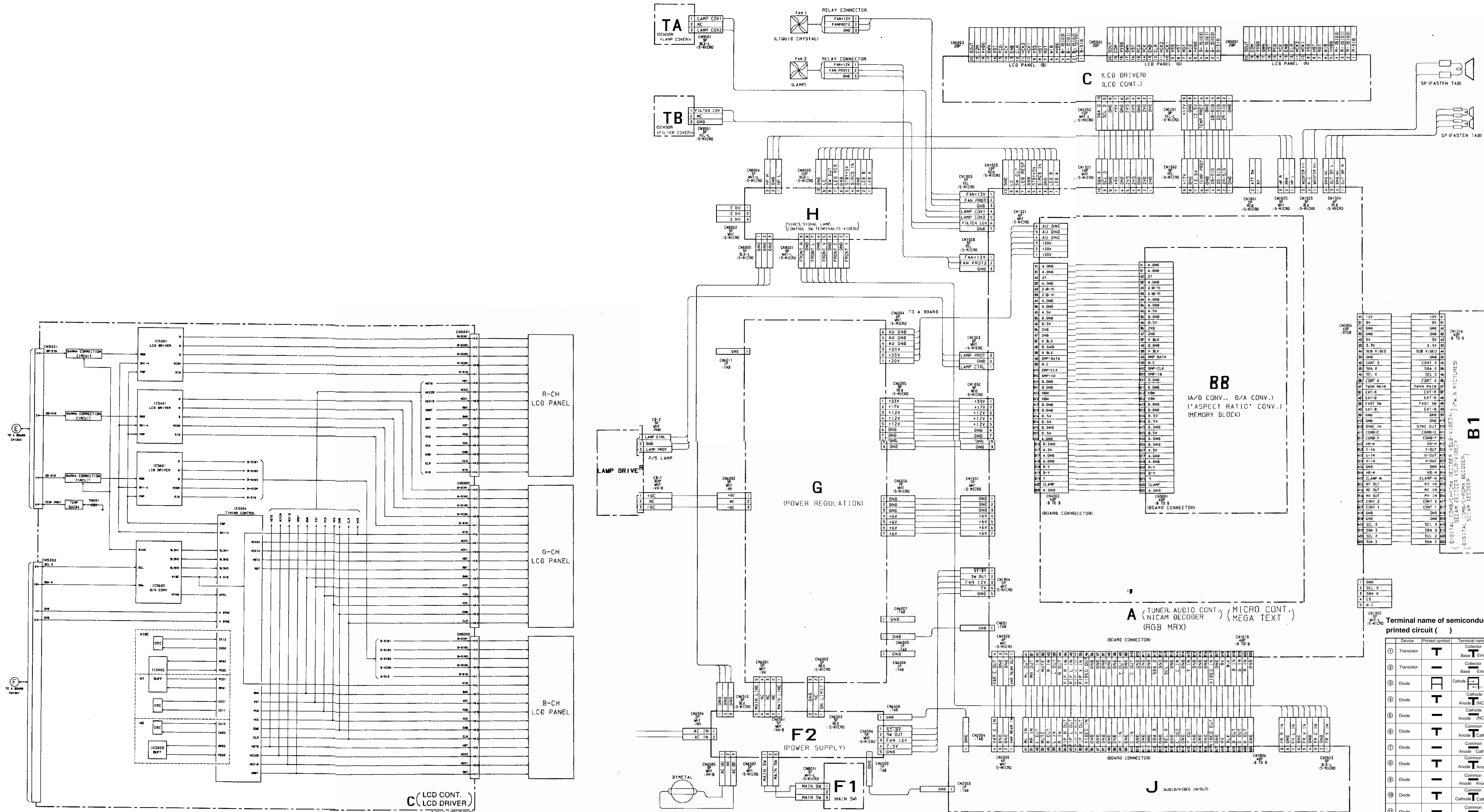
MEMO

4-1. BLOCK DIAGRAMS

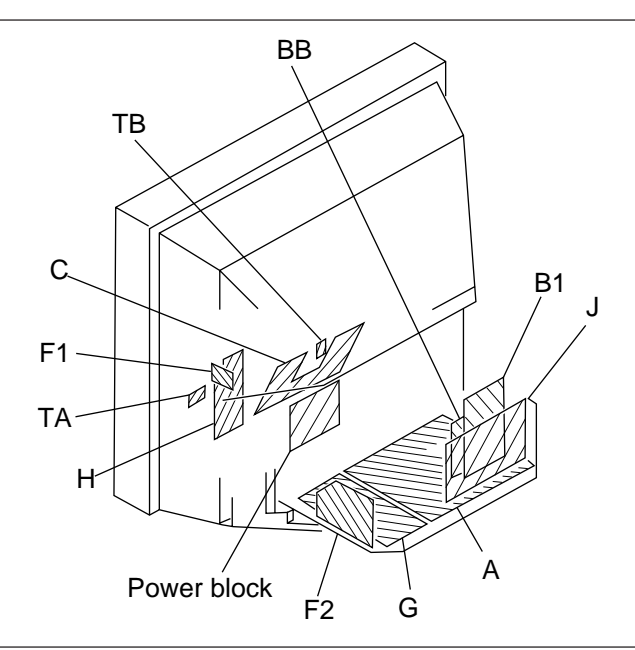




4-2. FRAME SCHEMATIC DIAGRAM



4-3. CIRCUIT BOARDS LOCATION



4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted. (pF : μF)
 - Capacitors without voltage indication are all 50 V.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP: 1/10 W)

- All resistors are in ohms.
- Nonflammable resistor.
- Fusible resistor.
- Internal component.
- Panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Earth-ground.
- Earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- NO MARK: PAL
- () : SECAM
- Circled numbers are waveform references.
- B + bus.
- B - bus.
- Signal path.

Reference information

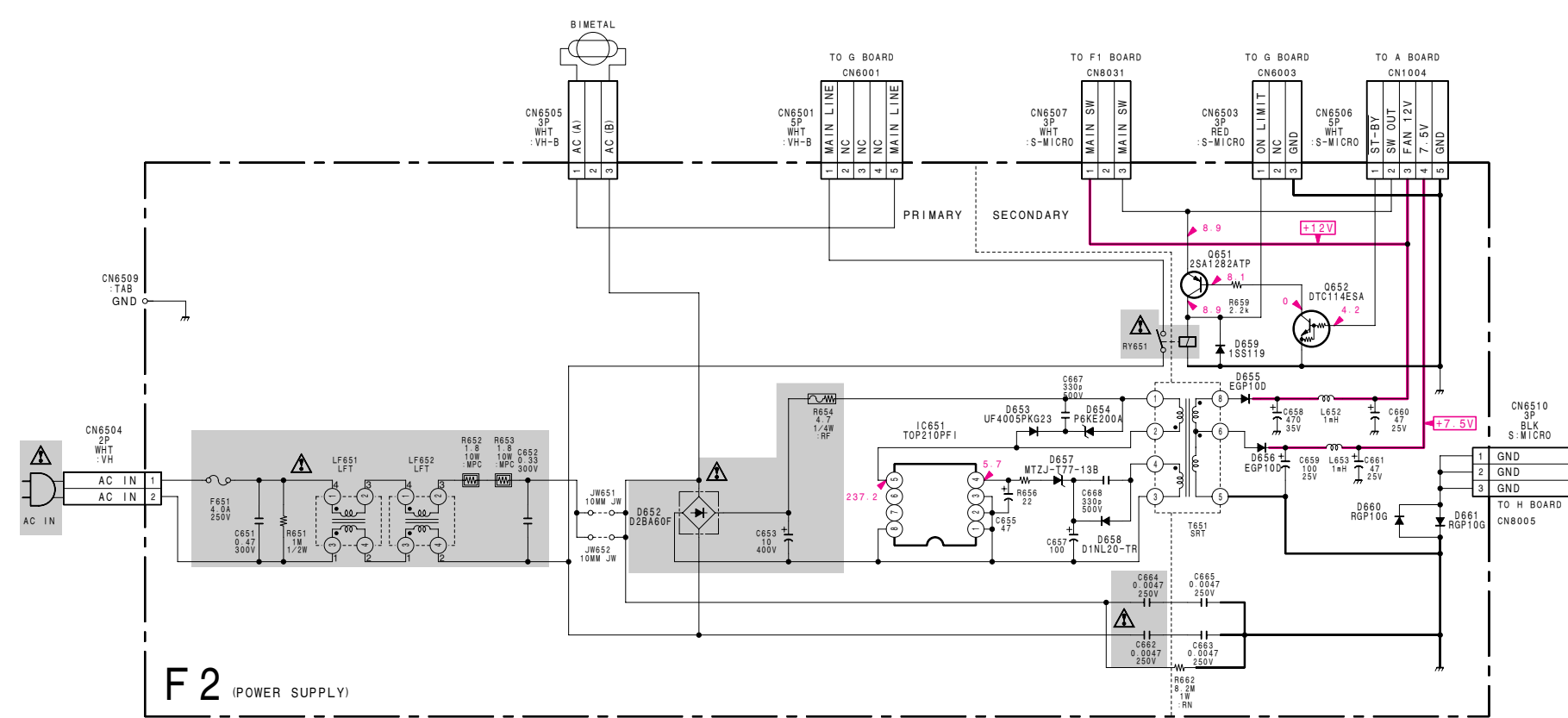
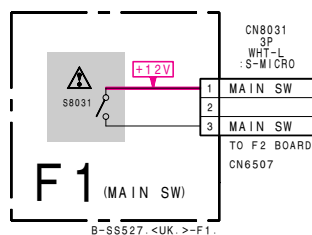
RESISTOR	:	RN	METAL FILM
:	:	RC	SOLID
:	:	FPRD	NONFLAMMABLE CARBON
:	:	FUSE	NONFLAMMABLE FUSIBLE
:	:	RS	NONFLAMMABLE WIREWOUND
:	:	RS	NONFLAMMABLE METAL OXIDE
:	:	RB	NONFLAMMABLE CEMENT
:	:	LF-8L	MICRO INDUCTOR
COIL	:	TA	TANTALUM
CAPACITOR	:	PS	STYROL
:	:	PP	POLYPROPYLENE
:	:	PT	MYLAR
:	:	MPS	METALIZED POLYESTER
:	:	MPP	METALIZED POLYPROPYLENE
:	:	ALB	BIDPOLAR
:	:	ALT	HIGH TEMPERATURE
:	:	ALR	HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

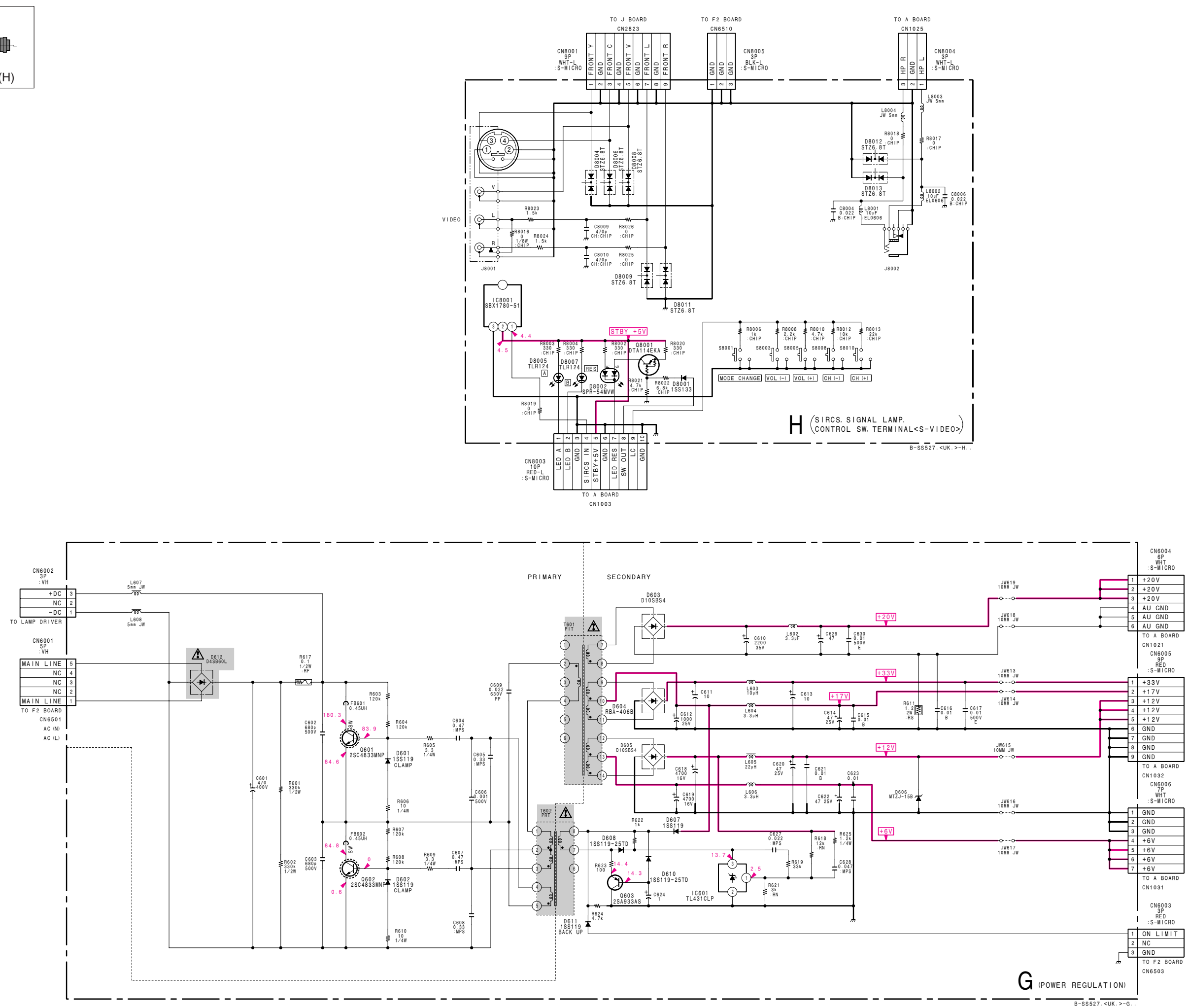
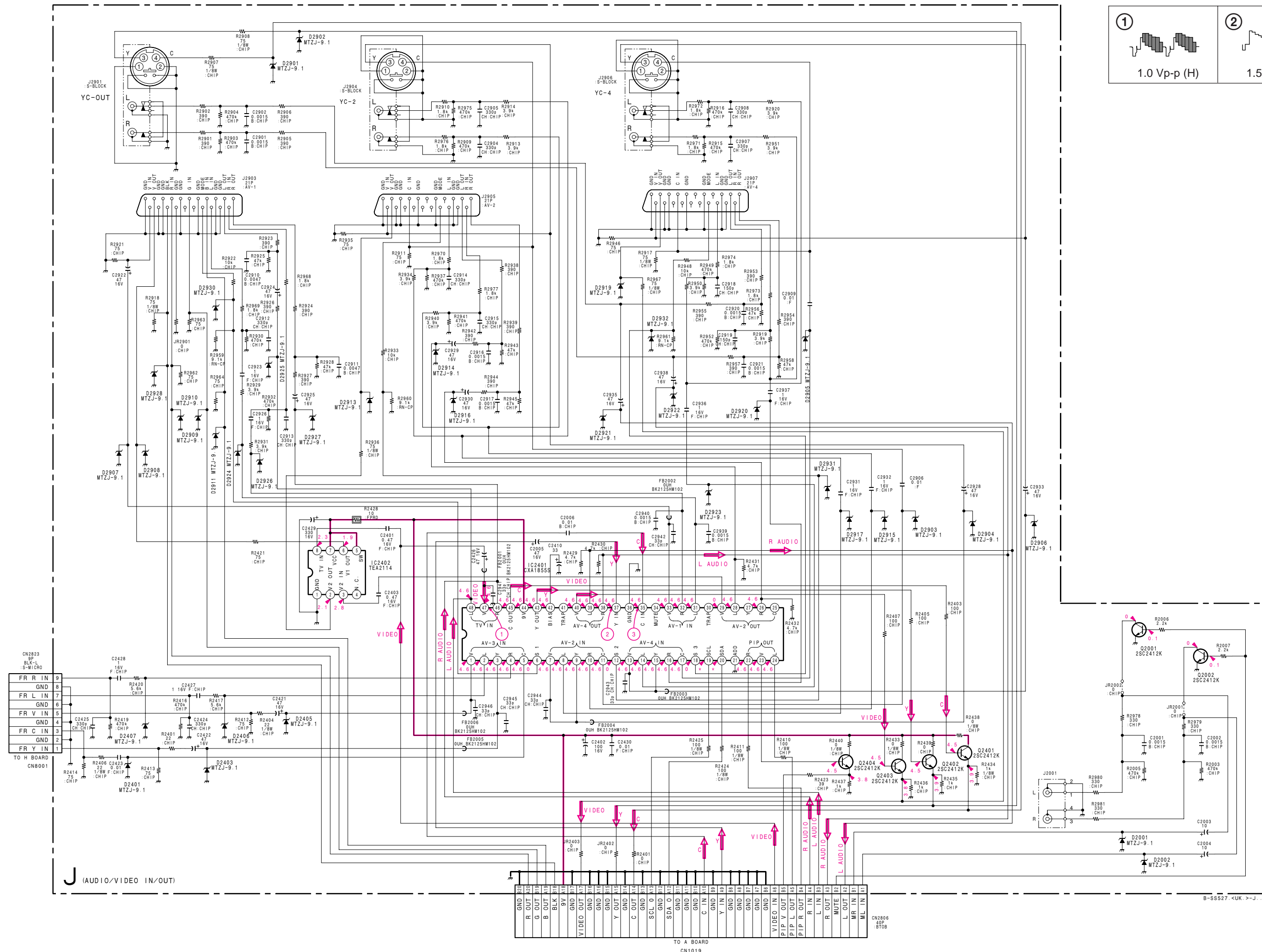
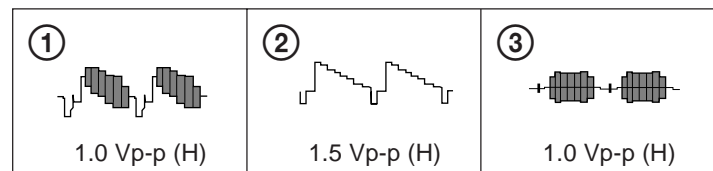
Terminal name of semiconductors in silk screen printed circuit ()

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode (NC)	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Common Anode Cathode	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Cathode	
⑨ Diode		Common Anode Cathode	
⑩ Diode		Common Anode Cathode	
⑪ Diode		Common Anode Cathode	
⑫ Diode		Common Anode Cathode	
⑬ Diode		Common Anode Cathode	
⑭ Diode		Common Anode Cathode	
⑮ Diode		Common Anode Cathode	
⑯ Diode		Common Anode Cathode	
⑰ Diode		Common Anode Cathode	
⑱ Diode		Common Anode Cathode	
⑲ Diode		Common Anode Cathode	
⑳ Diode		Common Anode Cathode	
㉑ Diode		Common Anode Cathode	
㉒ Diode		Common Anode Cathode	
㉓ Diode		Common Anode Cathode	
㉔ Diode		Common Anode Cathode	
㉕ Diode		Common Anode Cathode	
㉖ Diode		Common Anode Cathode	
㉗ Diode		Common Anode Cathode	
㉘ Diode		Common Anode Cathode	
㉙ Diode		Common Anode Cathode	
㉚ Diode		Common Anode Cathode	
㉛ Diode		Common Anode Cathode	
㉜ Diode		Common Anode Cathode	
㉝ Diode		Common Anode Cathode	
㉞ Diode		Common Anode Cathode	
㉟ Diode		Common Anode Cathode	
㊱ Diode		Common Anode Cathode	
㊲ Diode		Common Anode Cathode	
㊳ Diode		Common Anode Cathode	
㊴ Diode		Common Anode Cathode	
㊵ Diode		Common Anode Cathode	
㊶ Diode		Common Anode Cathode	
㊷ Diode		Common Anode Cathode	
㊸ Diode		Common Anode Cathode	
㊹ Diode		Common Anode Cathode	
㊺ Diode		Common Anode Cathode	
㊻ Diode		Common Anode Cathode	
㊼ Diode		Common Anode Cathode	
㊽ Diode		Common Anode Cathode	
㊾ Diode		Common Anode Cathode	
㊿ Diode		Common Anode Cathode	

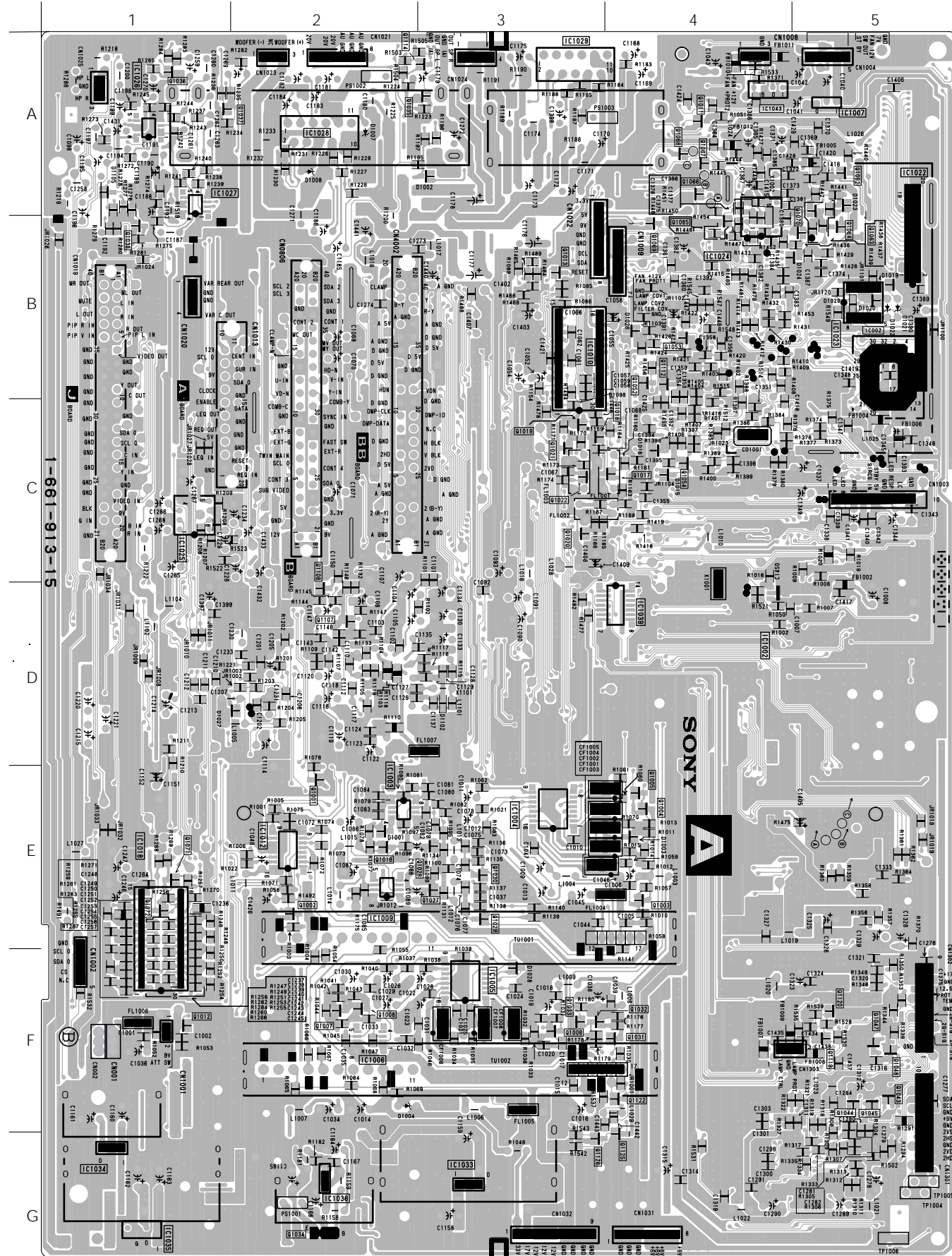
(Chip semiconductors that are not actually used are included.)



- J BOARD WAVEFORMS



— A Board (Conductor Side) —

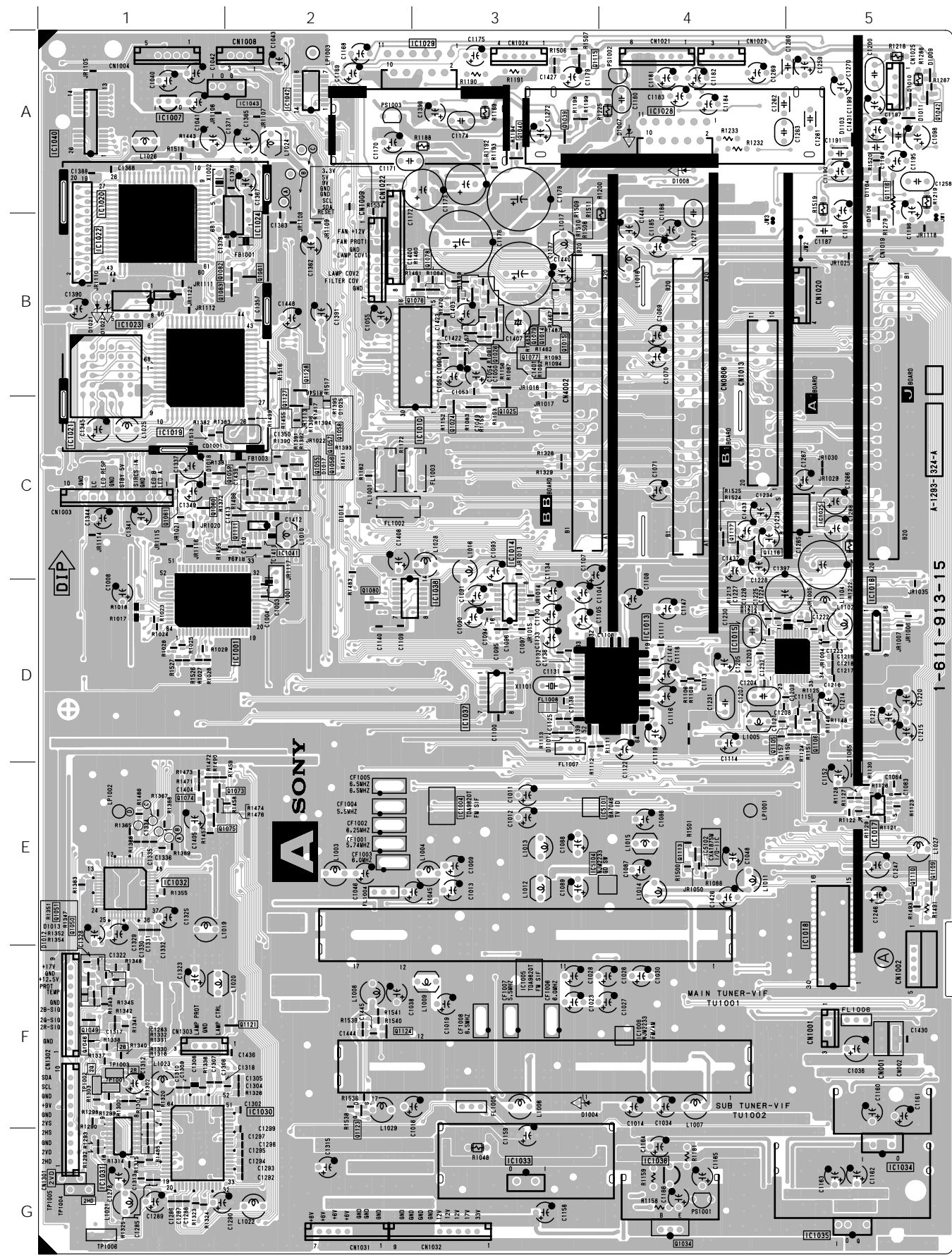


• A BOARD SEMICONDUCTOR LOCATION

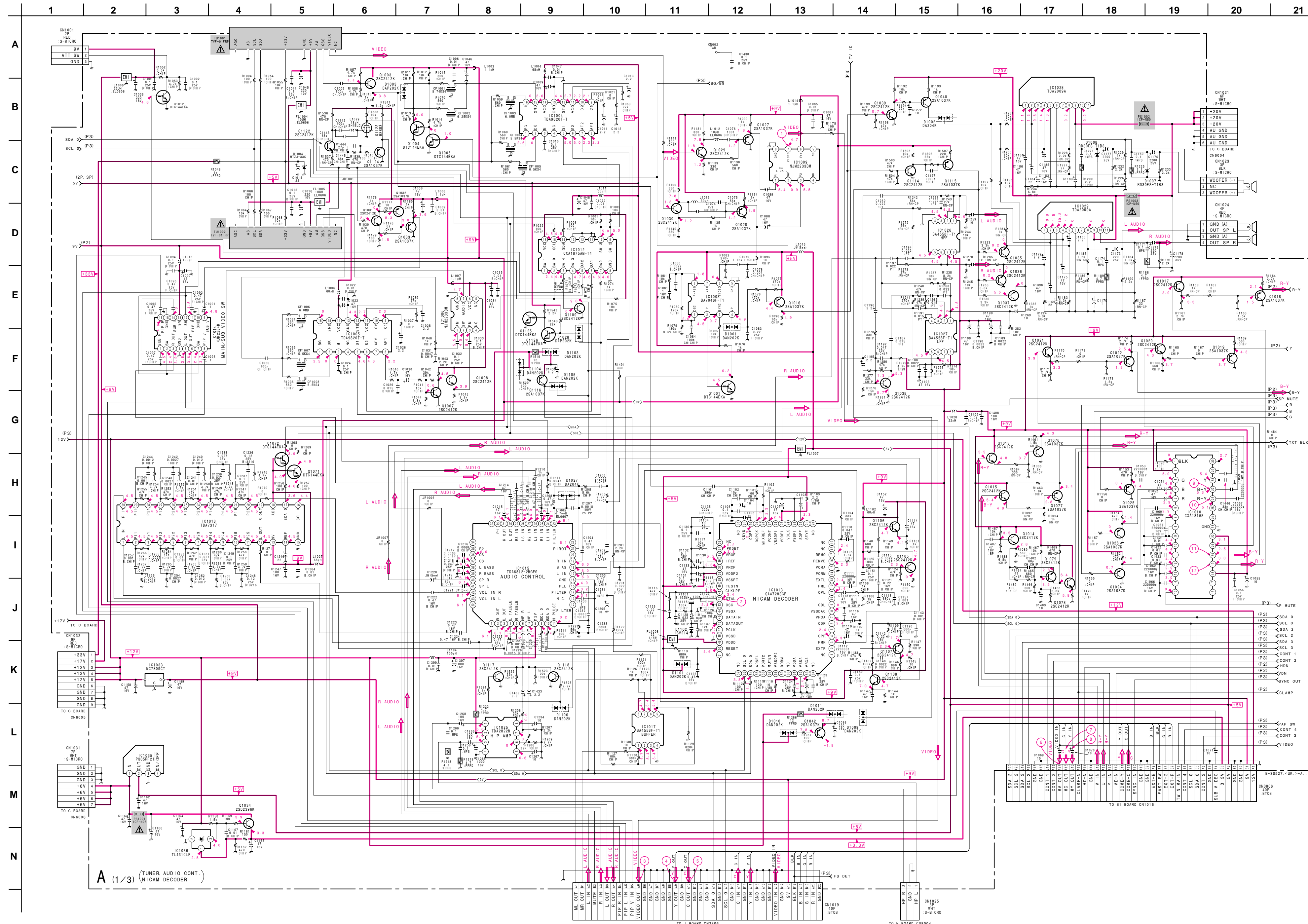
IC		Q1022 C-3		Q1120 F-5	
(Conductor Side)	(Component Side)				
IC1001	D-1	Q1024	C-3	Q1121	F-2
IC1003	E-2	Q1025	C-3	Q1122	F-4
IC1004	E-3	Q1026	B-3	Q1123	F-2
IC1005	F-3	Q1027	E-3	Q1124	F-2
IC1006	F-2	Q1028	E-3	Q1125	F-4
IC1007	A-5	Q1029	E-3	Q1126	F-3
IC1009	E-2	Q1030	E-3	Q1127	B-2
IC1010	B-3	Q1031	F-4	Q1128	B-2
IC1012	E-2	Q1032	F-4		
IC1013	D-4	Q1033	F-3	DIODE	
IC1014	D-3	Q1034	G-2	(Conductor Side)	(Component Side) *
IC1015	D-4	Q1035	A-3	D1001	E-2
IC1017	E-5	Q1036	A-1	D1002	A-3
IC1018	E-5	Q1037	A-2	D1003	E-4
IC1019	B-1	Q1038	B-1	D1004	F-2
IC1020	A-1	Q1039		D1007	A-2
IC1021	B-1	Q1040		D1008	A-2
IC1022	A-5	Q1042		D1009	A-5
IC1023	B-5	Q1043	F-5	D1010	A-5
IC1024	B-4	Q1044	F-5	D1011	A-5
IC1025	C-1	Q1045	F-5	D1012	F-1
IC1026	A-1	Q1047	F-5	D1013	F-1
IC1027	A-1	Q1048	F-5	D1014	C-2
IC1028	A-2	Q1049		D1015	C-4
IC1029	A-3	Q1050		D1018	
IC1030	F-1	Q1051	B-4	D1019	B-5
IC1031	G-1	Q1052	B-4	D1020	B-5
IC1032	E-1	Q1053		D1021	B-5
IC1033	G-3	Q1059		D1022	B-5
IC1035	G-1	Q1060		D1024	B-5
IC1036	G-2	Q1061		D1026	B-4
IC1041	C-2	Q1062	A-5	D1027	D-2
IC1042	A-2	Q1064	B-5	D1028	F-3
IC1043	A-4	Q1065	B-4	D1029	B-5
		Q1066	A-4	D1101	
		Q1067	A-4	D1102	D-3
		Q1068	A-4	D1103	A-5
		Q1069	B-4	D1104	A-5
		Q1070	B-5	D1105	A-1
		Q1071	E-1	D1106	A-5
		Q1072	E-1		
		Q1076	B-3	TUNER	
		Q1077	B-3	(Conductor Side)	(Component Side)
		Q1078	B-3	TU1001	E-3
		Q1079	B-3	TU1002	F-3
		Q1105	D-5	CRYSTAL	
		Q1106	D-5	(Conductor Side)	(Component Side)
		Q1107	D-2	X1001	C-4
		Q1108	C-2	X1002	A-4
		Q1109	E-5	X1101	D-3
		Q1110	E-5		
		Q1112	B-4		
		Q1114	A-3		
		Q1115			
		Q1116	A-5		
		Q1117	C-4		
		Q1118	C-4		
		Q1119	F-5		

*: Refer to Terminal name of semiconductors in silk screen printed circuit
(see page 44)

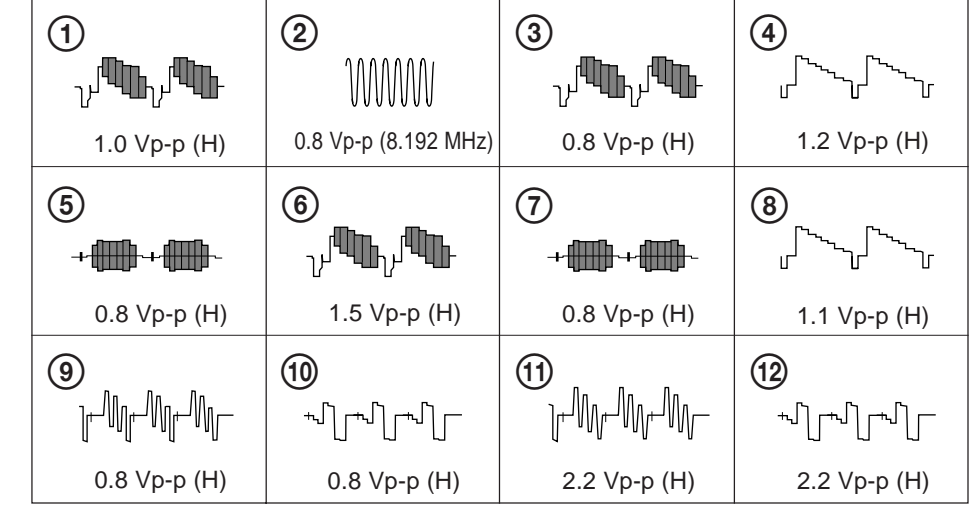
— A Board (Component Side) —



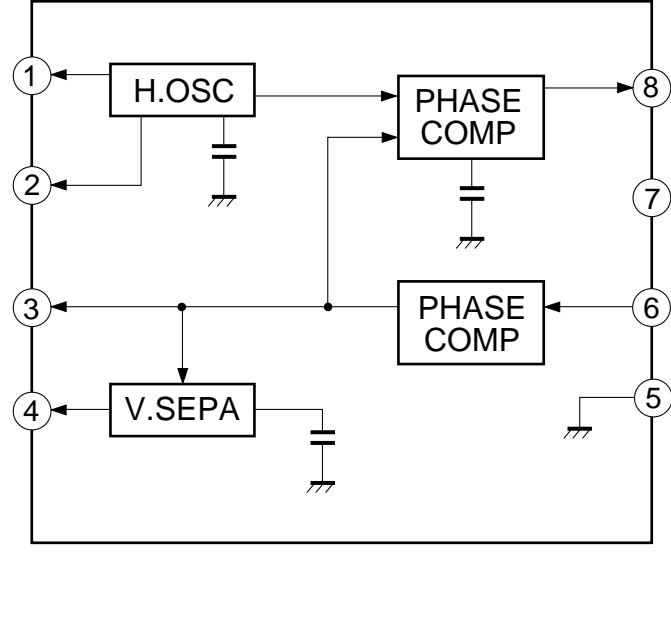
4-2. FRAME SCHEMATIC DIAGRAM



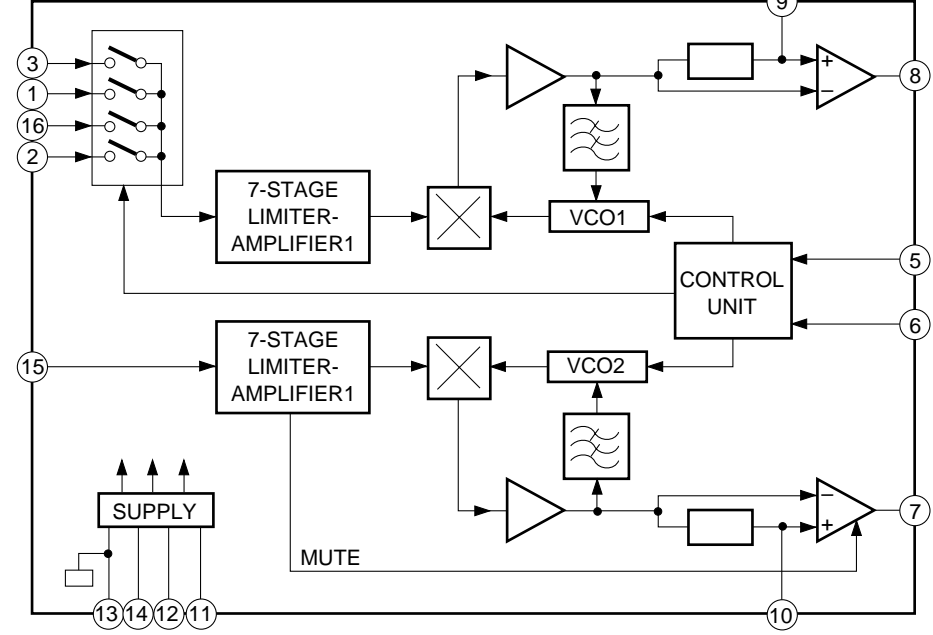
• A (1/3) BOARD WAVEFORMS



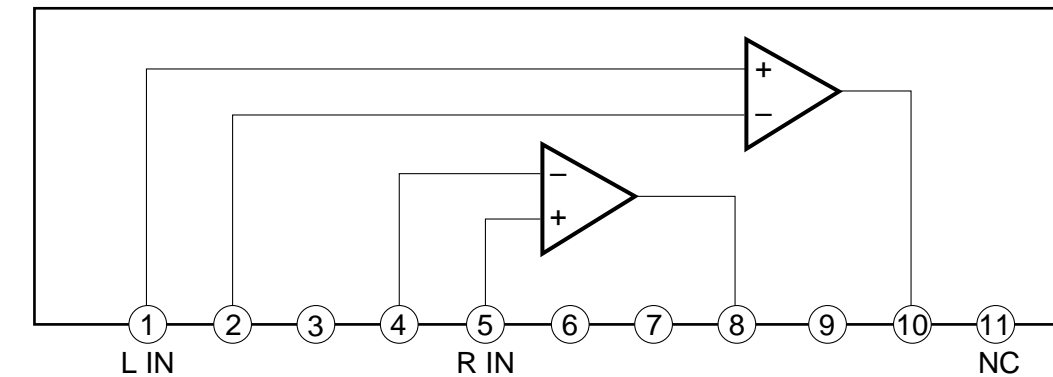
• A (1/3) BOARD IC1003 BA7046F-T1

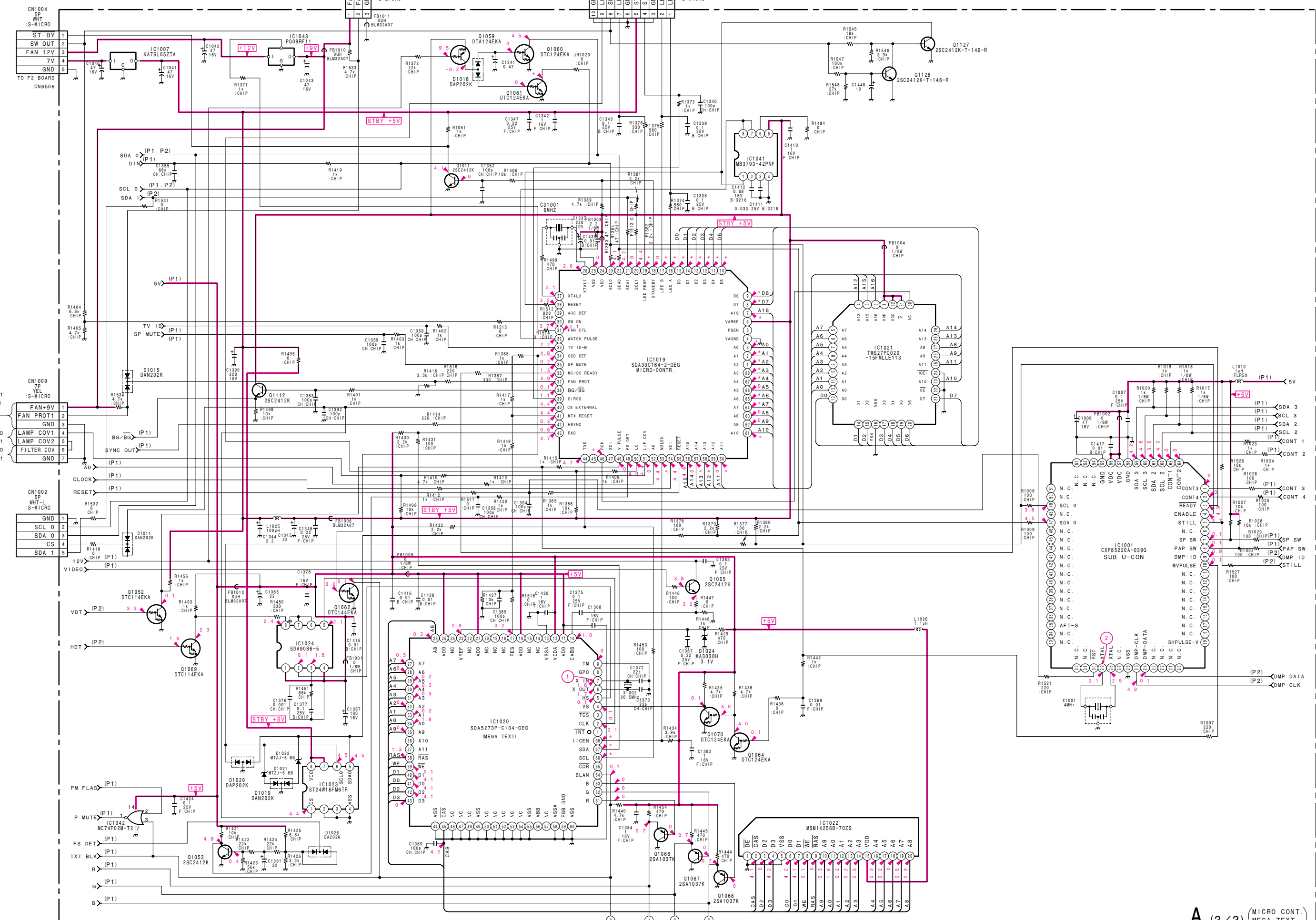
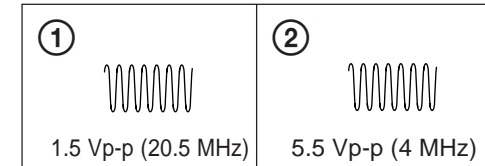
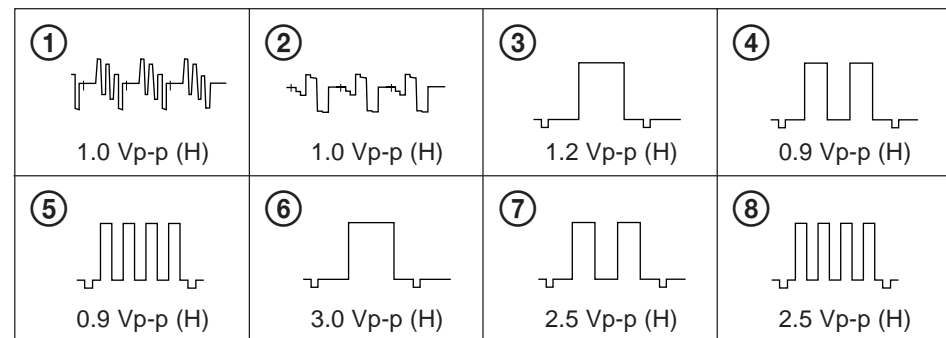


• A (1/3) BOARD IC1004,1005 TDA9820T-T



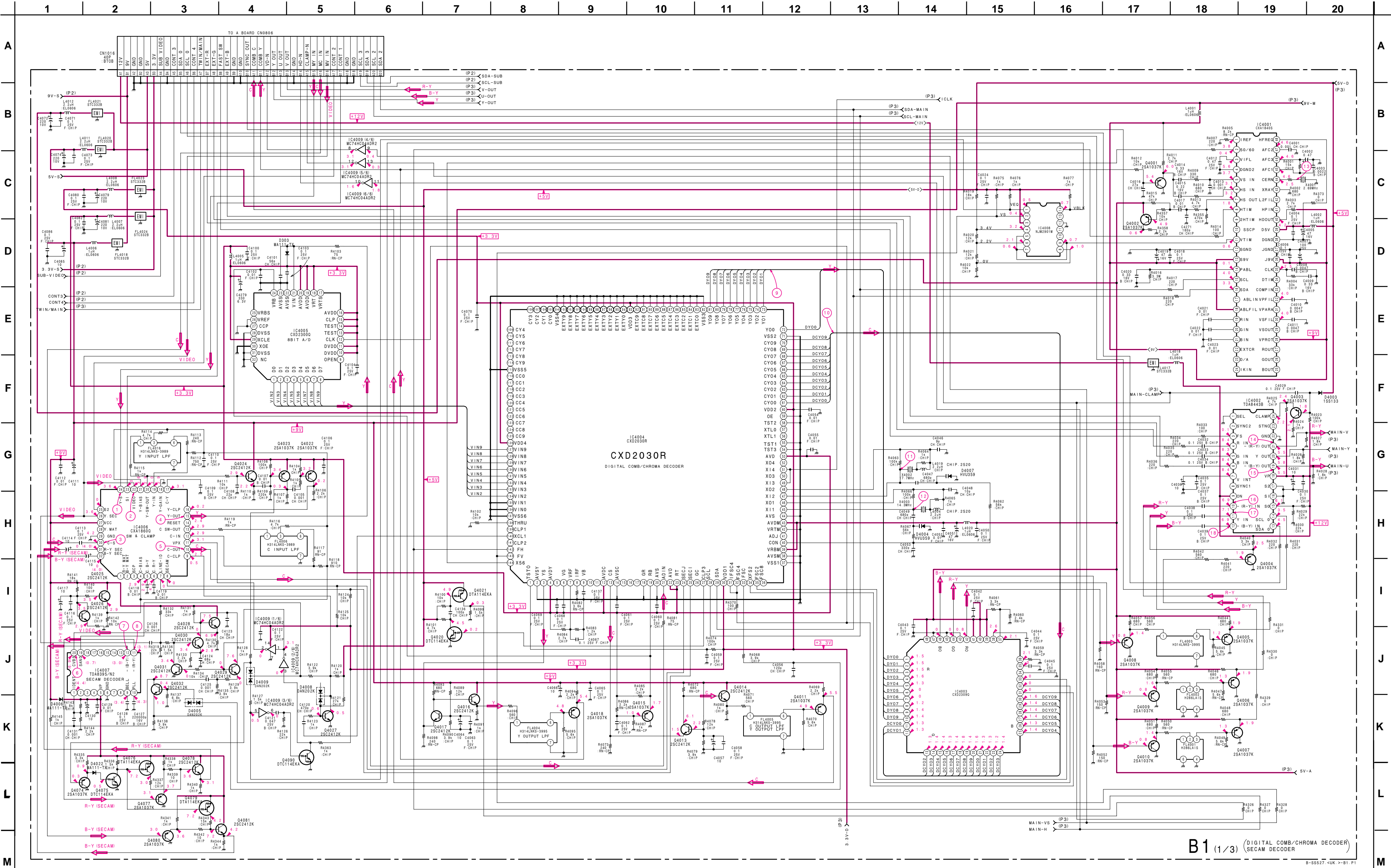
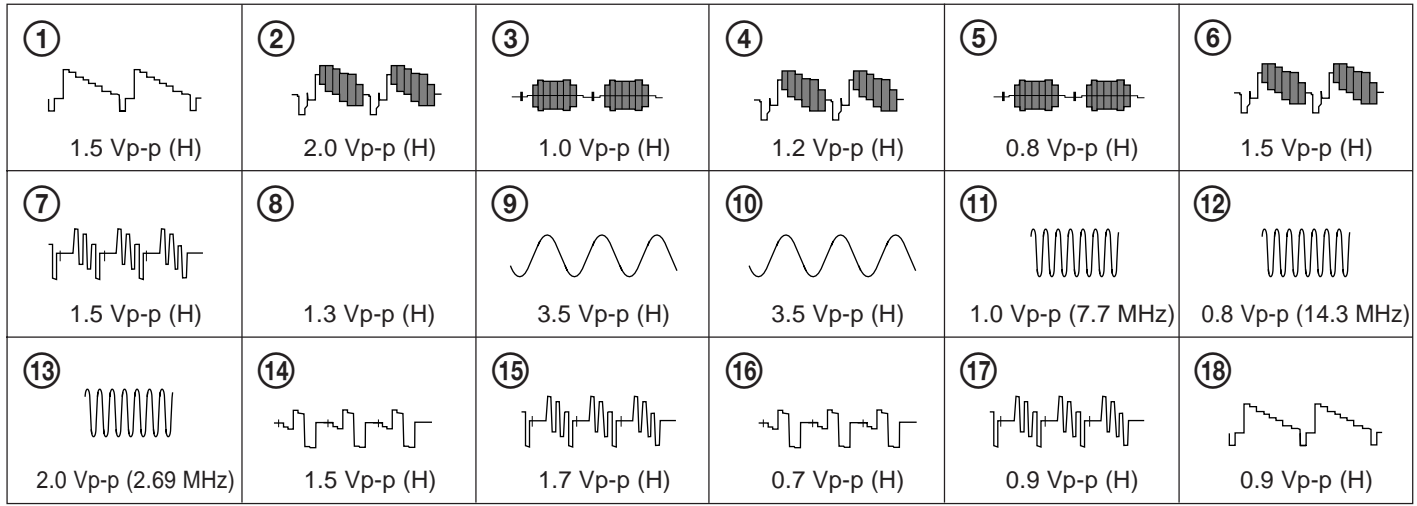
• A (1/3) BOARD IC1008,1009 TDA2009A



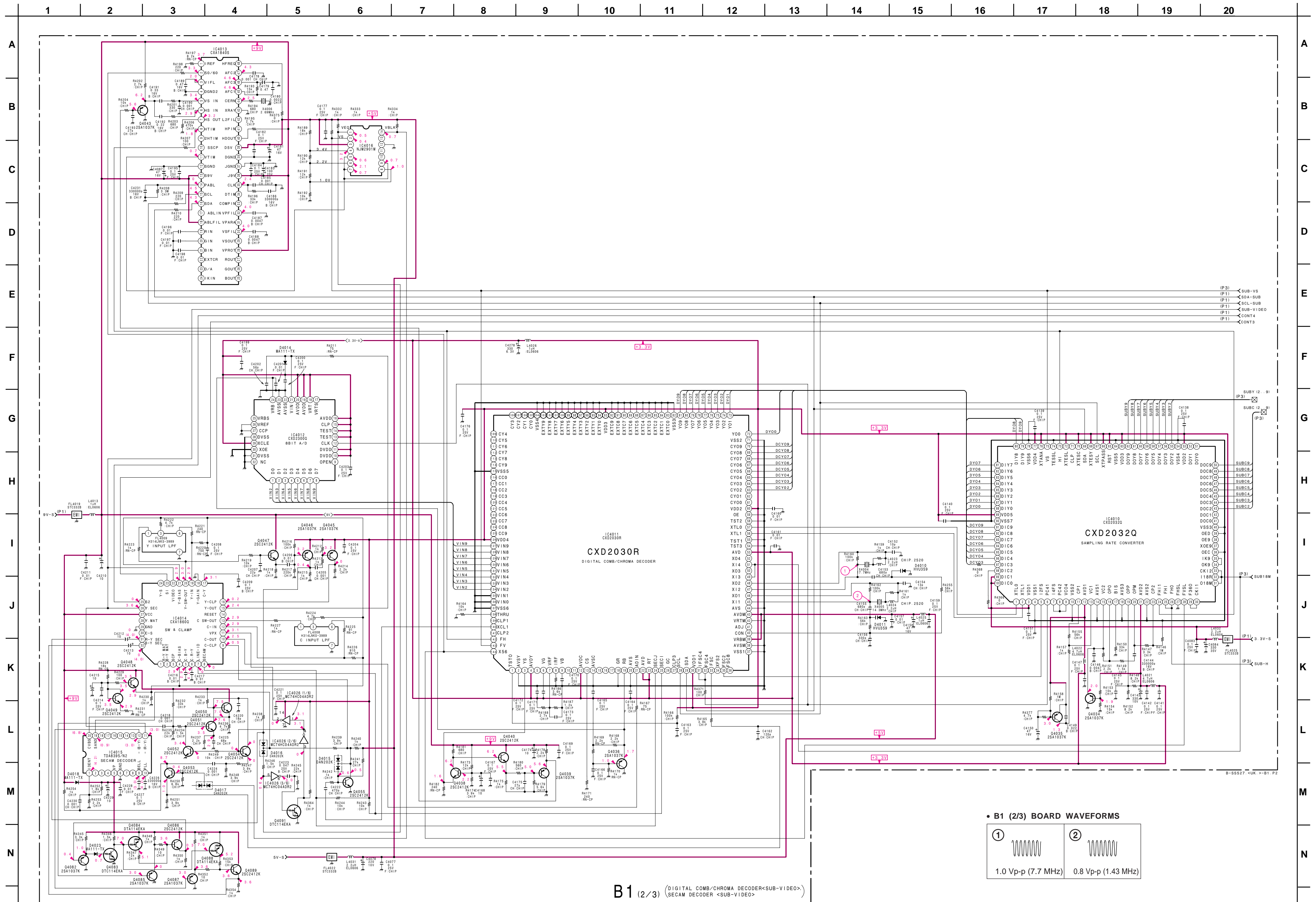


A (3/3) (MICRO CONT.)
(MEGA TEXT)

• B1 (1/3) BOARD WAVEFORMS



B1 (1/3) (DIGITAL COMB/CHROMA DECODER)
(SECAM DECODER)



Schematic diagram

B1 (1/2) board

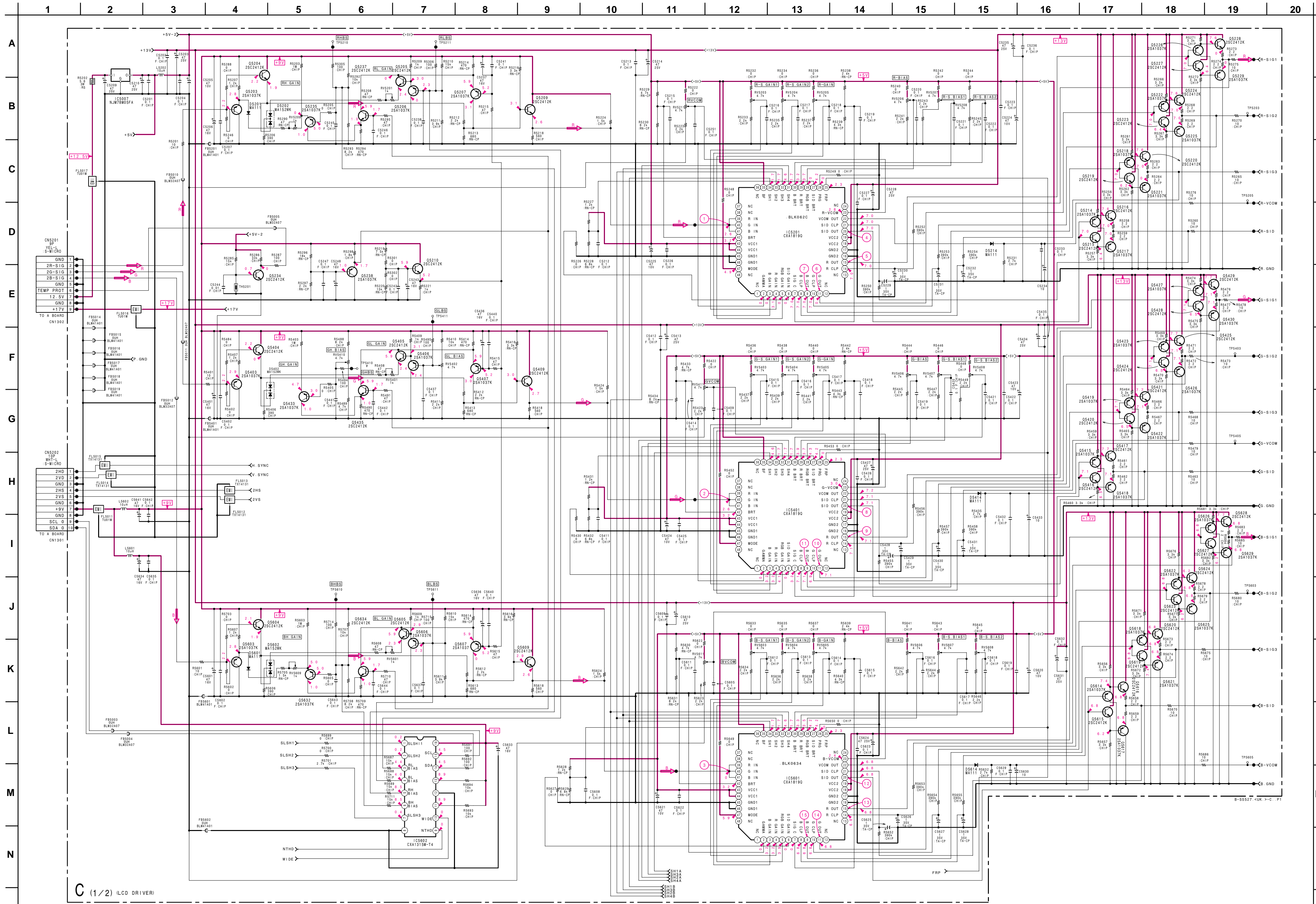
Schematic diagram

C1 (1/2) board

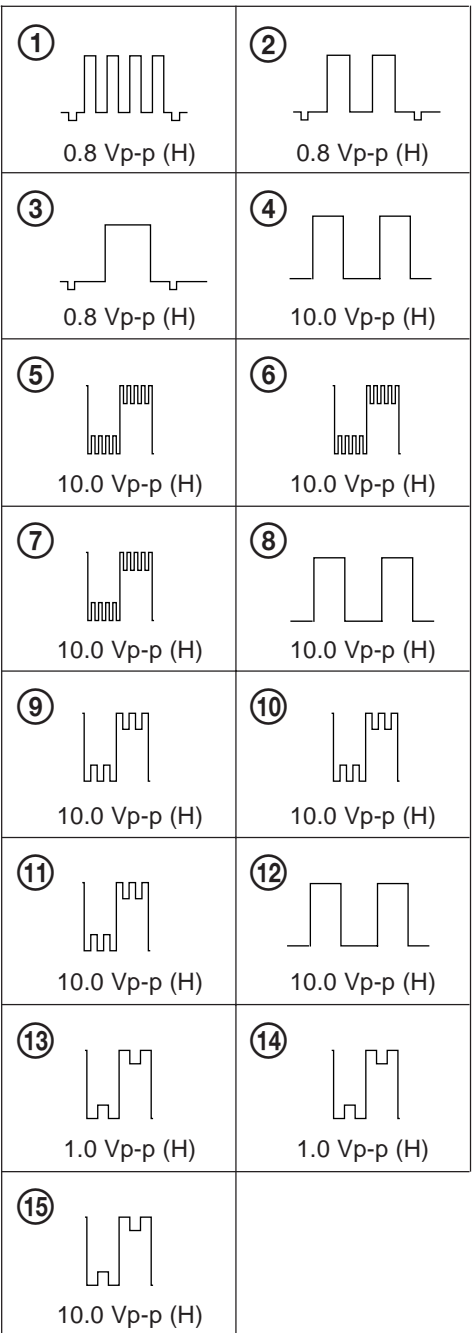
[illegible]

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 44)

(8) Schematic Diagram of C (1/2) Board

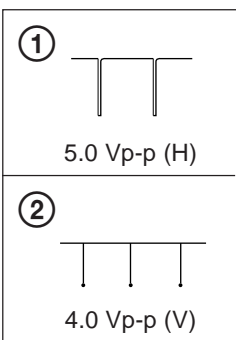


• C (1/2) BOARD WAVEFORMS



(9) Schematic Diagram of C (2/2)Board

• C (2/2) BOARD
WAVEFORMS



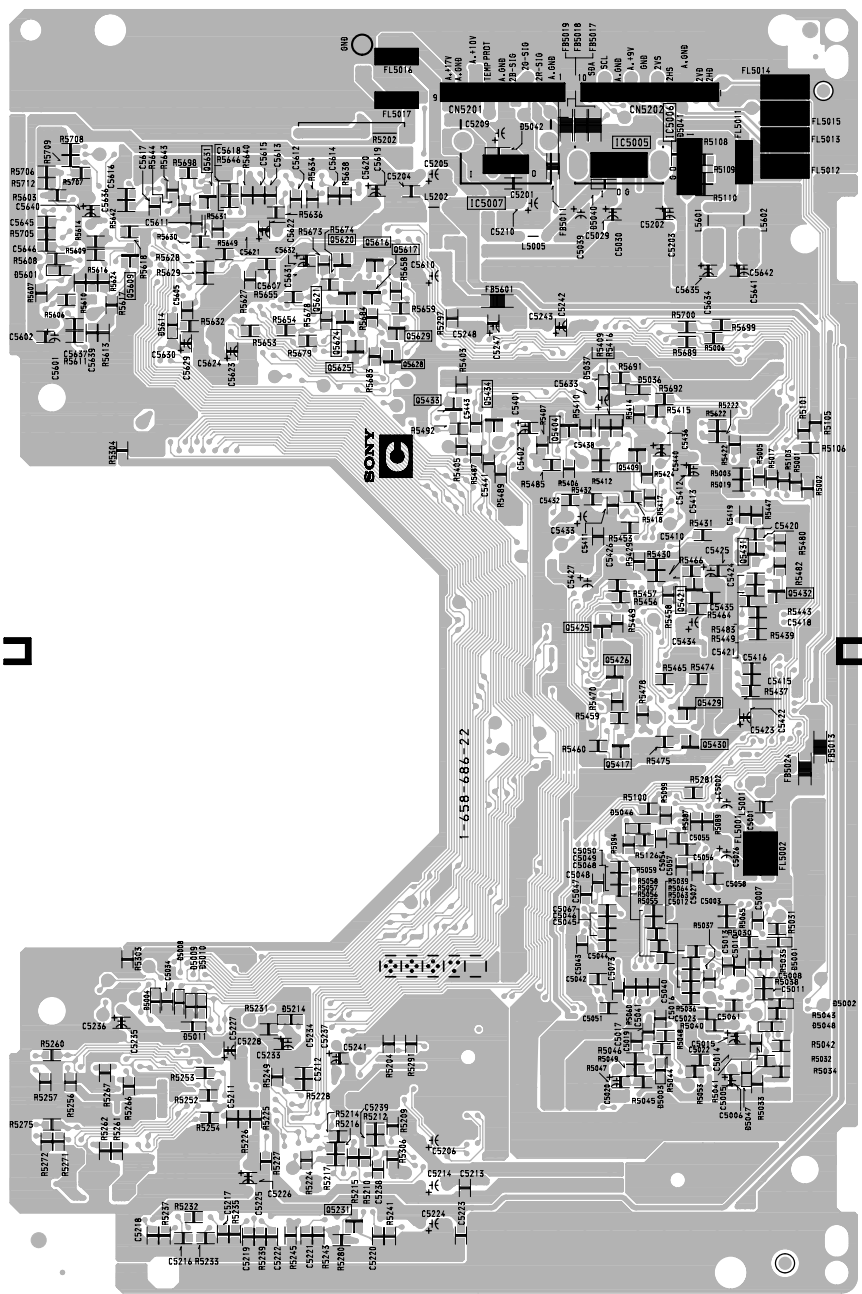
C BOARD

Terminal name of semiconductors in silk screen printed circuit (*):

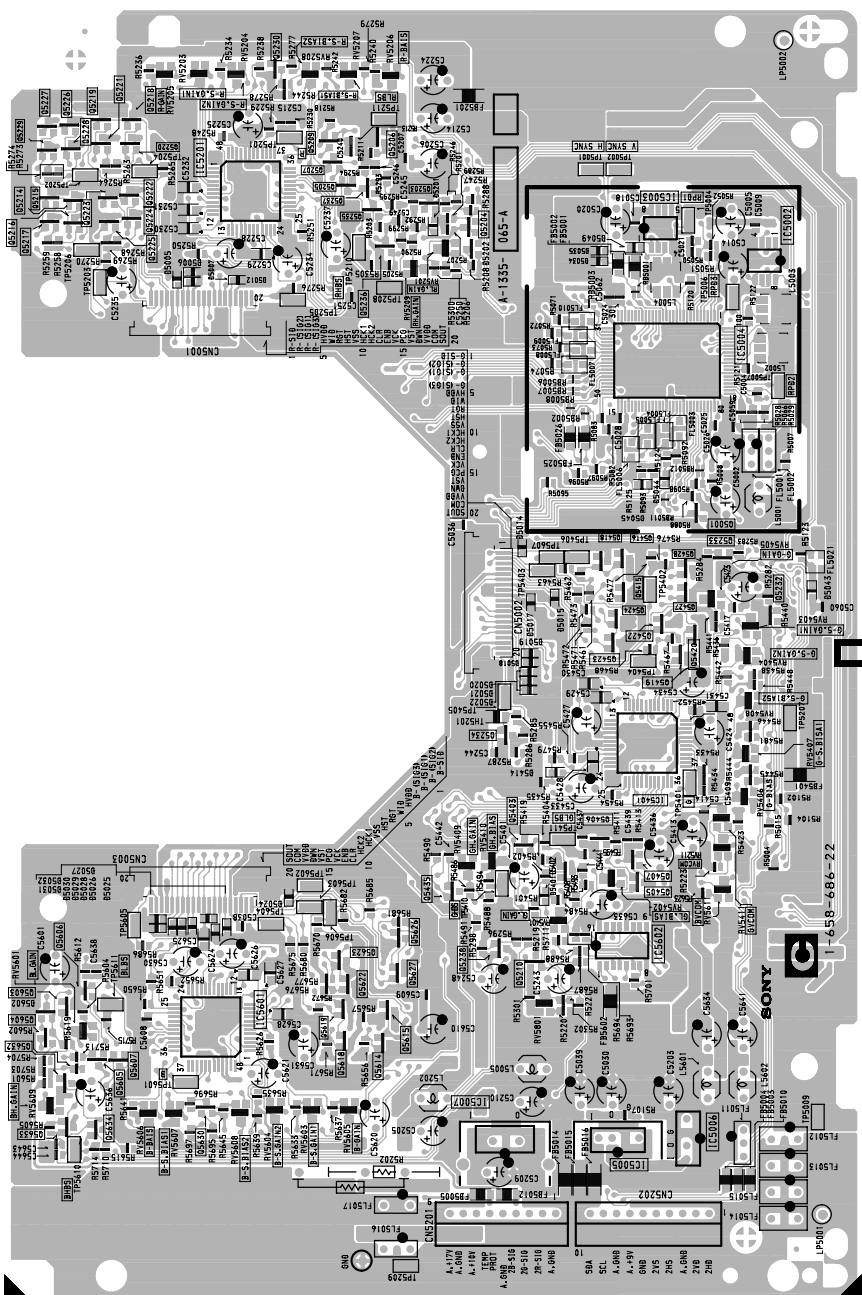
Ref.	*
Q5404, Q5409, Q5417, Q5421, Q5426, Q5429, Q5430, Q4533, Q5609, Q5616, Q5617, Q5620, Q5621, Q5624, Q5625, Q5628, Q5629	①
Q5001, Q5203 ~ Q5207, Q5209, Q5210, Q5214 ~ Q5229, Q5234, Q5235, Q5237, Q5238, Q5403, Q5405 ~ Q5407, Q5415, Q5416, Q5418 ~ Q5420, Q5422 ~ Q5424, Q5427, Q5428, Q5435, Q5603 ~ Q5607, Q5614, Q5615, Q5618, Q5619, Q5622, Q5623, Q5626, Q5627, Q5632, Q5634	②
D5001, D5003, D5034, D5035, D5040, D5041, D5043 ~ D5047, D5049, D5201, D5214, D5414, D5601, D5614	③
D5202, D5402, D5602	④

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 44)

– C Board (Conductor Side) –



– C Board (Conductor Side) –



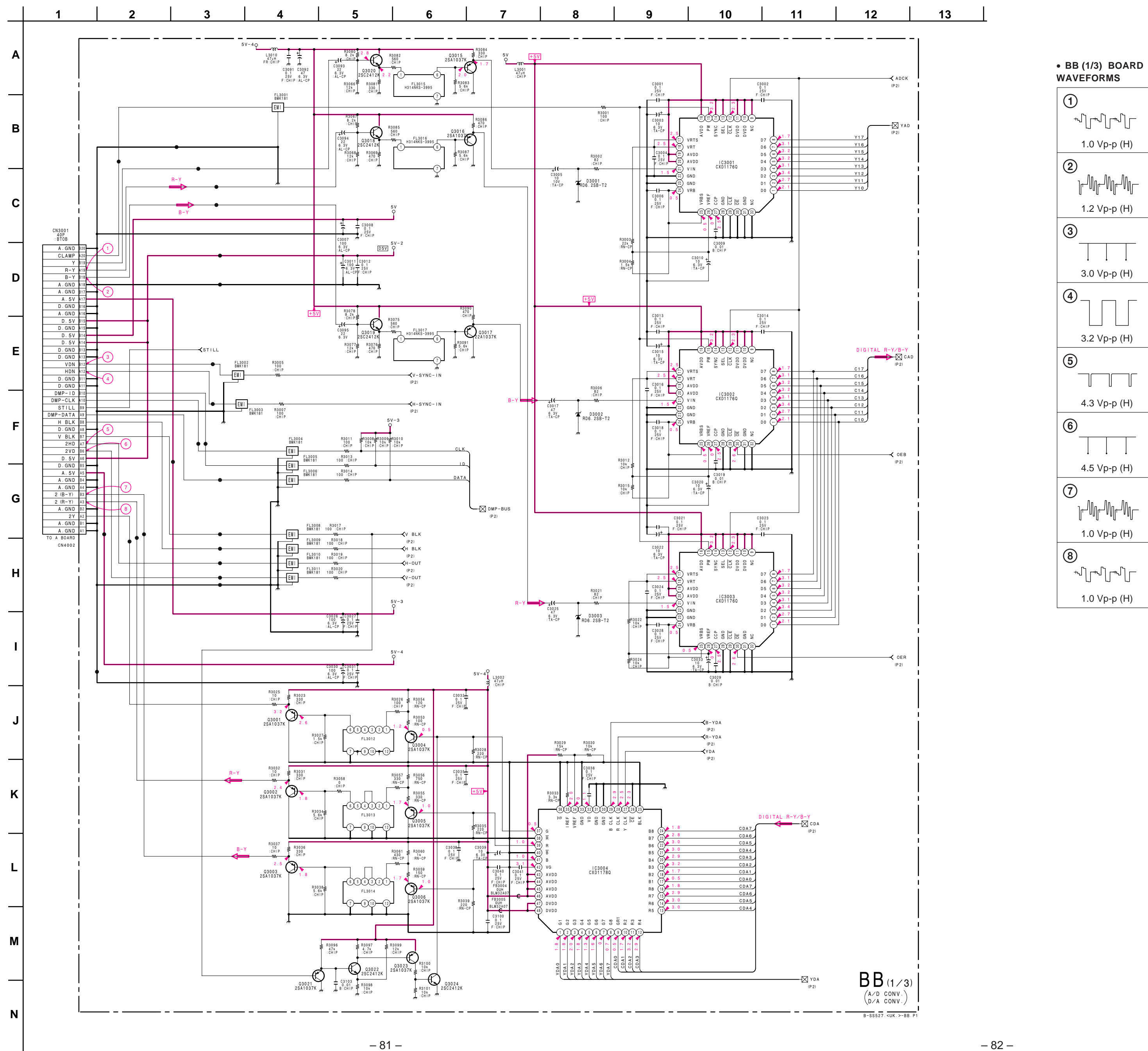
Schematic diagram

BB (2/2) board

Schematic diagram


(2/2) board

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 44)



[illegible]

①



1.0 V_{p-p} (28.636 MHz)

B-SS527. <UK. >-BB. P2

← **BB** (1/2) board

BB (2/2) board ➡

[illegible]BA4558F
BA7046F

1
TOP VIEW

1
TOP VIEW

A diagram showing a 100x100 grid. The top edge is labeled 80 and 51. The right edge is labeled 50 and 31. The bottom edge is labeled 100 and 30. The left edge is labeled 81 and 1. A central 50x50 area is outlined and labeled 'INDEX' with an arrow pointing to its top-left corner.

TOP VIEW

MARKING SIDE VIEW

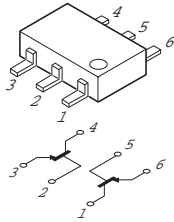
Diagram showing the marking side view of the component, featuring a series of vertical lines representing markings on a horizontal base.

A diagram of a three-pronged electrical plug. The prongs are labeled 1, 2, and 3 from left to right. The plug is shown in a perspective view, with the prongs extending downwards.

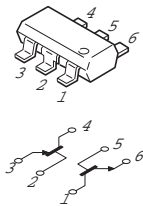
A perspective view of a three-pin DIN connector. The pins are labeled 1, 2, and 4. Pin 1 is the leftmost pin, pin 2 is the middle pin, and pin 4 is the rightmost pin. The connector is shown from a side-on perspective, highlighting the pin arrangement.

Diagram illustrating a three-wire cable configuration. The central conductor is labeled "LETTER SIDE" and is shielded. The outer conductors are labeled "E", "C", and "G".

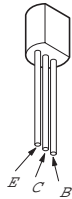
XN4401
XN4401-TX



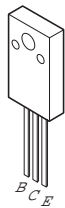
XN4601
XN4601-TX



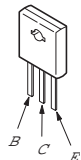
2SA1282ATP-EF



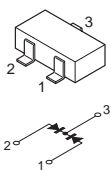
2SC4833-M1



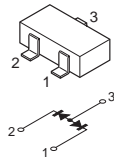
2SD2396H



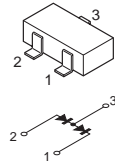
DAN202K
DAN202K-T-146
MA152WK-TX
STZ6.8T
1SS184



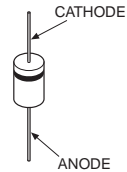
DAP202K
DAP202K-T-146



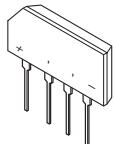
DA204K
DA204K-T-146



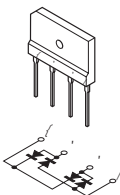
D1NL20-TR
EGP110D
EGP10DPKG23
S2LA20F
1SS133T-77



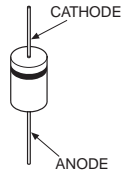
D2SBA60F



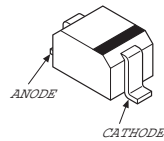
D4SB60L
D4SB60L-F
D10SBS4
D10SBS4F
RBA-406B



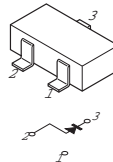
EL1Z
MTZJ-T-77-9.1A
RFP10GPKG23



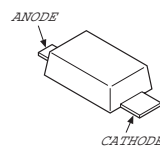
HVU359TRF
MA111
MA111-TX
RD4.7SB
RD4.7SB-T2
RD6.2SB
RD6.2SB-T2
1SV214
1SV214-TPH3
1T363
1T363-04-T8A



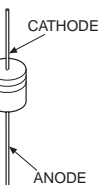
MA3030-H



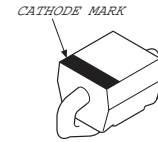
MA729
MA729-TX



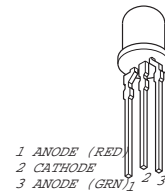
MTZJ-T-77-13B
MTZJ-T-77-15B
MTZJ-T-77-33C
MTZJ-T-77-5.6B
MTZJ-13B
MTZJ-33C
RD15ES-B2
RD30ESB3
RD5.6ESB2
1SS119-25
1SS119-25TD



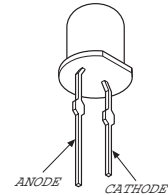
UF4005PLG23



SPR-54MVW



TLR124



SECTION 5

EXPLODED VIEWS

NOTE:

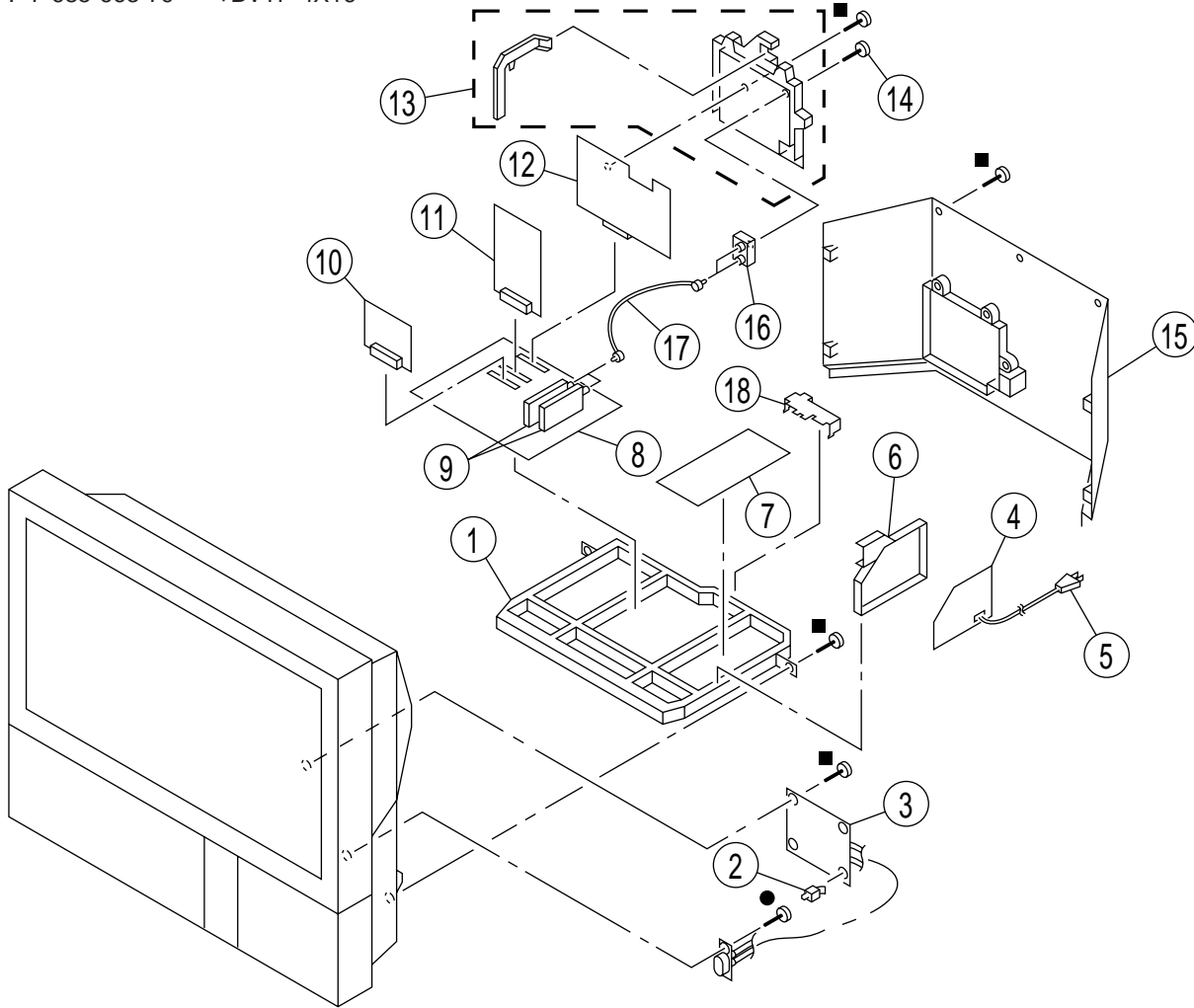
- Items with no part number and no description are not stocked because they are seldom required for routine service.

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

5-1. CHASSIS

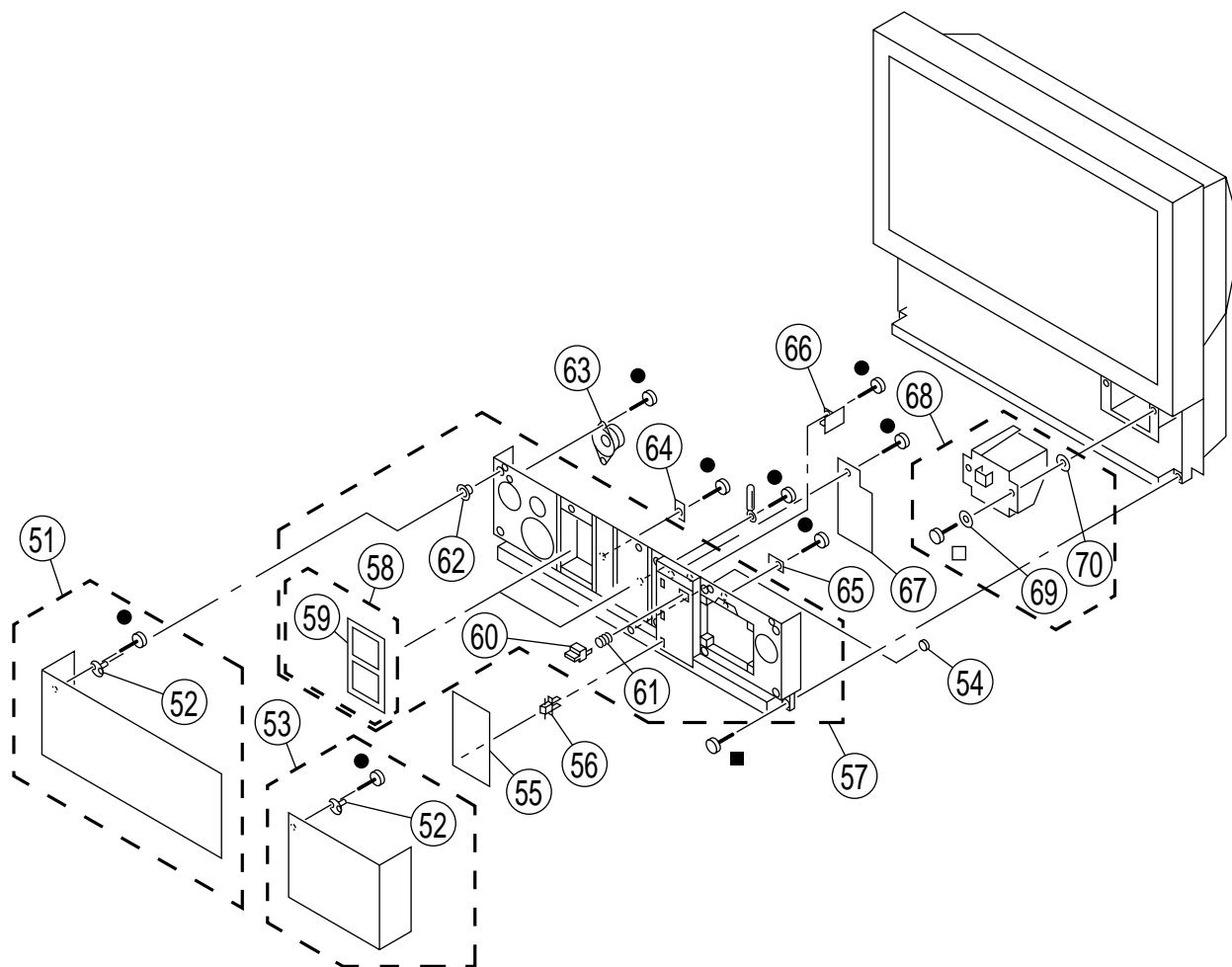
- : 7-685-648-79 +BVTP 3X12
 ■ : 7-685-663-79 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-054-721-01	BRACKET, MAIN		10	* A-1135-870-A	BB BOARD, COMPLETE	
2	* 3-703-141-00	HOLDER, PWB		11	* A-1135-884-A	B1 BOARD, COMPLETE	
3	\triangle 1-473-545-13	POWER BLOCK		12	* A-1388-189-A	J BOARD, COMPLETE	
4	* A-1241-255-A	F2 BOARD, COMPLETE		13	4-054-727-01	TERMINAL BOARD	
5	\triangle 1-776-860-12	POWER COARD, FILTER(UK)		14	4-379-611-01	SCREW (M3X8), +B	
6	* 4-054-722-01	BRACKET, F2		15	X-4033-267-2	COVER ASSY, REAR	
7	* A-1311-494-A	G BOARD, COMPLETE		16	1-251-372-21	BOOSTER, RF	
8	* A-1297-874-A	A BOARD, COMPLETE		17	* 1-777-539-11	CABLE, PIN	
9	\triangle 1-693-340-23	TUNER/VIF		18	4-055-427-01	COVER, AC CORD	

5-2. FRONT COVER

- : 7-685-648-79 +BVTP 3X12
 ■ : 7-685-663-79 +BVTP 4X16
 □ : *7-683-421-04 HEXAGON SOCKET BOLT 4X12

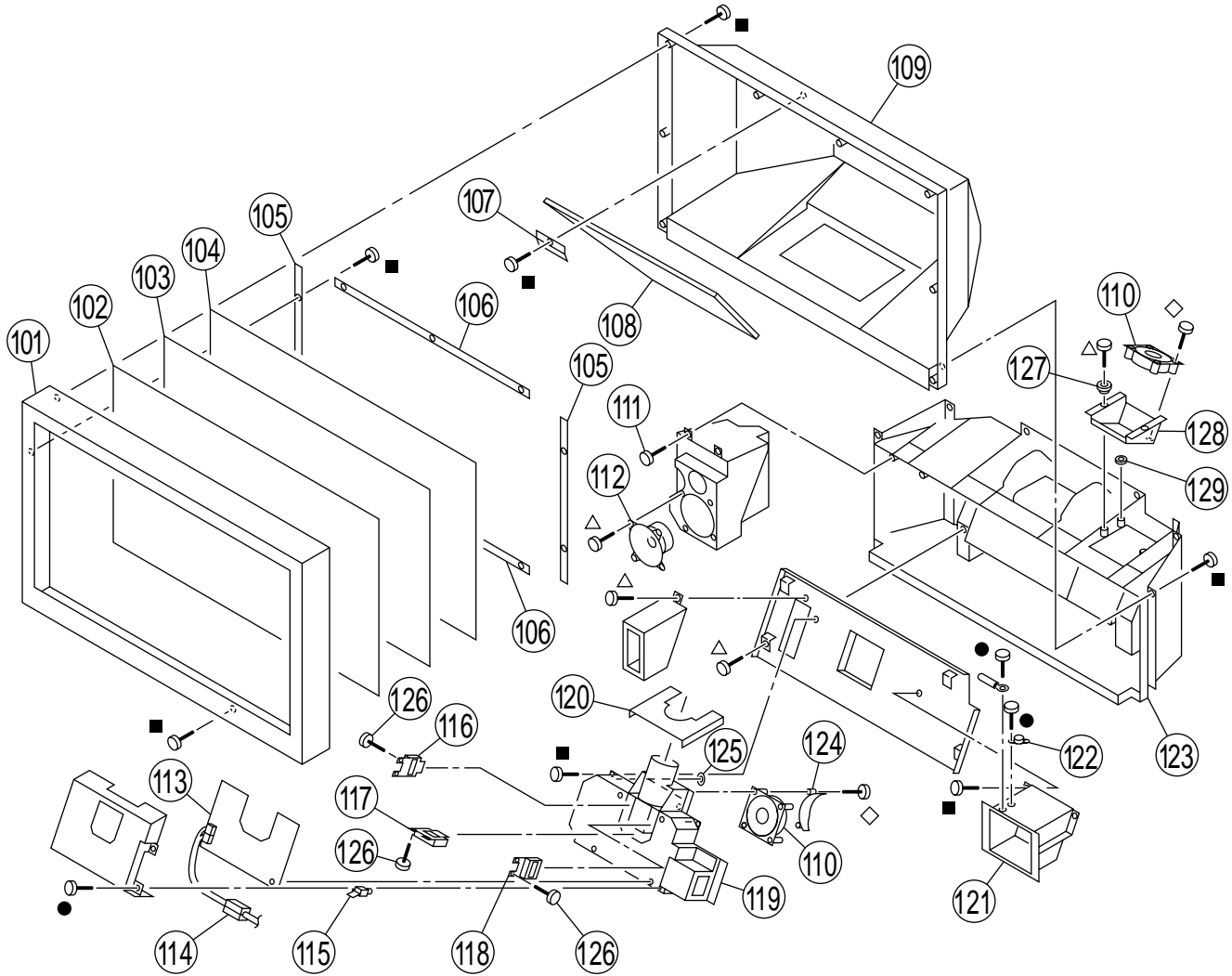


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-328-1	PANEL (L) ASSY, FRONT		52	4-820-917-01	SPRING, COMPRESSION	
52	4-054-709-01	STRIKE		62	*4-838-438-00	LATCH	
53	X-4200-327-1	PANEL (R) ASSY, FRONT		63	1-505-207-11	SPEAKER (5.7CM)	
54	4-204-021-01	SCREW COVER		64	*A-1390-622-A	TB BOARD, COMPLETE	
55	X-4200-326-1	DOOR ASSY		65	*A-1390-621-A	TA BOARD, COMPLETE	
56	3-703-035-11	SHAFT, LID		66	*A-1241-256-A	F1 BOARD, COMPLETE	
57	X-4033-825-1	COVER ASSY, FRONT	58-62	67	*A-1372-259-A	H BOARD, COMPLETE	
58	X-4034-041-1	FILTER ASSY	59	68	A-1501-092-A	LAMP BLOCK ASSY	69, 70
59	4-051-312-01	FILTER		69	3-901-261-01	WASHER	
60	4-051-285-01	BUTTON, POWER		70	*3-650-537-00	WASHER	

5-3. SCREEN MIRROR BLOCK AND OPTICS UNIT

- : 7-685-648-79 +BVTP 3X12
- : 7-685-663-79 +BVTP 4X16
- △ : 7-685-663-71 +BVTP 4X16
- ◇ : 7-685-167-19 WASHER HEAD SCREW +PX35

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4200-332-1	FRAME ASSY, SCREEN		115	* 3-703-141-00	HOLDER, PWB	
102	4-057-969-11	SCREEN, CONTRAST		116	A-1501-135-A	PANEL BLOCK ASSY (B)	
103	4-203-837-01	PLATE (L), DIFFUSION		117	A-1501-134-A	PANEL BLOCK ASSY (G)	
104	4-203-836-01	PLATE (F), DIFFUSION		118	A-1501-133-A	PANEL BLOCK ASSY (R)	
105	* 4-049-644-01	HOLDER, SCREEN (S1)		119	△ * 1-758-091-12	OPTICAL UNIT	
106	* 4-033-782-02	HOLDER (S), SCREEN		120	* 4-051-825-11	SHIELD, OPTICAL	
107	* 4-051-296-01	HOLDER, MIRROR		121	* 4-051-343-01	BASE, LAMP	
108	4-051-283-01	MIRROR		122	△ 1-533-746-11	THERMOSTAT	
109	X-4033-329-2	COVER ASSY, MIRROR		123	* X-4033-826-1	CABINET ASSY, BOTTOM	
110	1-698-696-21	FAN, DC		124	* 4-061-665-01	PLATE, RECTIFIER	
111	4-384-096-01	SCREW (4X16), TAPPING, +P		125	4-830-092-01	WASHER, FIBER	
112	1-505-845-11	SPEAKER (10CM)		126	4-047-747-21	SCREW, SPACER HEXAGON	
113	* A-1335-072-A	C BOARD, COMPLETE		127	* 4-038-987-01	CUSHION, SPEAKER	
114	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)		128	4-051-316-02	BRACKET, FAN	
				129	3-929-943-01	FOOT	

SECTION 6

ELECTRICAL PARTS LIST

BB

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

• The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• CAPACITORS
PF : $\mu\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1135-870-A BB BOARD, COMPLETE *****				C3057	1-163-038-00	CERAMIC CHIP 0.1MF	25V
<CAPACITOR>				C3058	1-110-569-11	TANTAL. CHIP 47MF	20% 6.3V
C3001	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3059	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3002	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3060	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C3003	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	C3061	1-135-210-11	TANTAL. CHIP 4.7MF	20% 10V
C3005	1-104-851-11	TANTAL. CHIP 10MF	20% 10V	C3062	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3006	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3070	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V
C3007	1-126-206-11	ELECT CHIP 100MF	20% 6.3V	C3071	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3008	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3072	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3009	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C3073	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3010	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	C3074	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3011	1-126-206-11	ELECT CHIP 100MF	20% 6.3V	C3075	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3012	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3076	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3013	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3077	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3014	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3078	1-104-559-11	FILM CHIP 0.047MF	5% 16V
C3015	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	C3079	1-135-145-11	TANTAL. CHIP 0.47MF	20% 25V
C3016	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3091	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3017	1-110-569-11	TANTAL. CHIP 47MF	20% 6.3V	C3092	1-126-205-11	ELECT CHIP 47MF	20% 6.3V
C3018	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3093	1-124-778-00	ELECT CHIP 22MF	20% 6.3V
C3019	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C3094	1-124-778-00	ELECT CHIP 22MF	20% 6.3V
C3020	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	C3095	1-124-778-00	ELECT CHIP 22MF	20% 6.3V
C3021	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3096	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3022	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	C3097	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3023	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3100	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3024	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C3101	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3025	1-110-569-11	TANTAL. CHIP 47MF	20% 6.3V	C3102	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3026	1-126-206-11	ELECT CHIP 100MF	20% 6.3V	C3103	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3027	1-163-038-00	CERAMIC CHIP 0.1MF	25V	<CONNECTOR>			
C3028	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CN3001	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C3029	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<DIODE>			
C3030	1-126-206-11	ELECT CHIP 100MF	20% 6.3V	D3001	8-719-158-19	DIODE RD6.2SB	
C3031	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D3002	8-719-158-19	DIODE RD6.2SB	
C3032	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D3003	8-719-158-19	DIODE RD6.2SB	
C3033	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	D3004	8-719-404-49	DIODE MA111	
C3035	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D3005	8-719-404-49	DIODE MA111	
C3036	1-163-038-00	CERAMIC CHIP 0.1MF	25V	<FERRITE BEAD>			
C3038	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FB3001	1-543-813-21	FERRITE 0UH	
C3039	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	FB3002	1-543-813-21	FERRITE 0UH	
C3040	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FB3003	1-543-813-21	FERRITE 0UH	
C3041	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FB3004	1-543-813-21	FERRITE 0UH	
C3044	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	FB3005	1-543-813-21	FERRITE 0UH	
C3045	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	FB3006	1-543-813-21	FERRITE 0UH	
C3046	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	FB3007	1-543-813-21	FERRITE 0UH	
C3047	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<FILTER>			
C3048	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V	FL3001	1-233-512-21	FERRITE 37UH	
C3049	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	FL3002	1-233-512-21	FERRITE 37UH	
C3050	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	FL3003	1-233-512-21	FERRITE 37UH	
C3051	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C3052	1-135-157-21	TANTAL. CHIP 10MF	20% 6.3V				
C3054	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C3055	1-163-243-11	CERAMIC CHIP 47PF	5% 50V				
C3056	1-163-243-11	CERAMIC CHIP 47PF	5% 50V				

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FL3004	1-233-512-21	FERRITE	37UH	<RESISTOR>			
FL3005	1-233-512-21	FERRITE	37UH	R3001	1-216-025-00	RES,CHIP	100 5% 1/10W
FL3006	1-233-512-21	FERRITE	37UH	R3002	1-216-023-00	RES,CHIP	82 5% 1/10W
FL3008	1-233-512-21	FERRITE	37UH	R3003	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
FL3009	1-233-512-21	FERRITE	37UH	R3004	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
FL3010	1-233-512-21	FERRITE	37UH	R3005	1-216-025-00	RES,CHIP	100 5% 1/10W
FL3011	1-233-512-21	FERRITE	37UH	R3006	1-216-023-00	RES,CHIP	82 5% 1/10W
FL3012	1-233-446-11	FILTER, LOW PASS		R3007	1-216-025-00	RES,CHIP	100 5% 1/10W
FL3013	1-236-620-11	FILTER, LOW PASS		R3008	1-216-073-00	RES,CHIP	10K 5% 1/10W
FL3014	1-236-620-11	FILTER, LOW PASS		R3009	1-216-073-00	RES,CHIP	10K 5% 1/10W
FL3015	1-233-435-11	FILTER, LOW PASS		R3010	1-216-073-00	RES,CHIP	10K 5% 1/10W
FL3016	1-233-435-11	FILTER, LOW PASS		R3011	1-216-025-00	RES,CHIP	100 5% 1/10W
FL3017	1-233-435-11	FILTER, LOW PASS		R3012	1-216-073-00	RES,CHIP	10K 5% 1/10W
<IC>				R3013	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3001	8-752-337-04	IC CXD1176Q		R3014	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3002	8-752-337-04	IC CXD1176Q		R3015	1-216-073-00	RES,CHIP	10K 5% 1/10W
IC3003	8-752-337-04	IC CXD1176Q		R3017	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3004	8-752-338-46	IC CXD1178Q		R3018	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3005	8-759-398-16	IC MC74HCU04DR2		R3019	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3006	8-759-398-17	IC MC74HC04ADR2		R3020	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3007	8-752-365-06	IC CXX48324R-1		R3021	1-216-023-00	RES,CHIP	82 5% 1/10W
IC3008	8-752-377-13	IC CXD2428Q		R3022	1-216-073-00	RES,CHIP	10K 5% 1/10W
IC3009	8-759-295-09	IC TLC2932IPW		R3023	1-216-037-00	RES,CHIP	330 5% 1/10W
IC3010	8-752-365-06	IC CXX48324R-1		R3024	1-216-073-00	RES,CHIP	10K 5% 1/10W
IC3011	8-759-083-94	IC TC7W74FU		R3025	1-216-001-00	RES,CHIP	10 5% 1/10W
IC3012	8-752-360-44	IC CXX1203AR		R3026	1-216-025-00	RES,CHIP	100 5% 1/10W
IC3013	8-752-360-44	IC CXX1203AR		R3027	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
IC3014	8-752-360-44	IC CXX1203AR		R3028	1-216-635-11	METAL CHIP	220 0.50% 1/10W
IC3015	8-752-379-90	IC CXD2066Q		R3029	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
IC3016	8-759-082-59	IC TC7W32FU		R3030	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
<CHIP CONDUCTOR>				R3031	1-216-037-00	RES,CHIP	330 5% 1/10W
JR2	1-216-295-00	SHORT	0	R3032	1-216-001-00	RES,CHIP	10 5% 1/10W
JR4	1-216-295-00	SHORT	0	R3033	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
<COIL>				R3034	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
L3001	1-412-031-11	INDUCTOR CHIP 47UH		R3035	1-216-635-11	METAL CHIP	220 0.50% 1/10W
L3002	1-412-031-11	INDUCTOR CHIP 47UH		R3036	1-216-037-00	RES,CHIP	330 5% 1/10W
L3004	1-410-192-51	INDUCTOR CHIP 1UH		R3037	1-216-001-00	RES,CHIP	10 5% 1/10W
L3007	1-216-158-00	RES,CHIP	22 5% 1/8W	R3038	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
L3008	1-412-031-11	INDUCTOR CHIP 47UH		R3039	1-216-635-11	METAL CHIP	220 0.50% 1/10W
L3009	1-412-031-11	INDUCTOR CHIP 47UH		R3040	1-216-073-00	RES,CHIP	10K 5% 1/10W
L3010	1-412-031-11	INDUCTOR CHIP 47UH		R3041	1-208-845-11	RES,CHIP	1M 5% 1/10W
<TRANSISTOR>				R3042	1-216-025-00	RES,CHIP	100 5% 1/10W
Q3001	8-729-216-22	TRANSISTOR 2SA1162-G		R3043	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3002	8-729-216-22	TRANSISTOR 2SA1162-G		R3044	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3003	8-729-216-22	TRANSISTOR 2SA1162-G		R3045	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3004	8-729-216-22	TRANSISTOR 2SA1162-G		R3046	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3005	8-729-216-22	TRANSISTOR 2SA1162-G		R3047	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3006	8-729-216-22	TRANSISTOR 2SA1162-G		R3048	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3007	8-729-620-06	TRANSISTOR 2SC3052-EF		R3049	1-216-025-00	RES,CHIP	100 5% 1/10W
Q3015	8-729-216-22	TRANSISTOR 2SA1162-G		R3050	1-216-025-00	RES,CHIP	100 5% 1/10W
Q3016	8-729-216-22	TRANSISTOR 2SA1162-G		R3051	1-216-295-00	SHORT	0
Q3017	8-729-216-22	TRANSISTOR 2SA1162-G		R3053	1-216-627-11	METAL CHIP	100 0.50% 1/10W
Q3018	8-729-620-06	TRANSISTOR 2SC3052-EF		R3054	1-216-629-11	METAL CHIP	120 0.50% 1/10W
Q3019	8-729-620-06	TRANSISTOR 2SC3052-EF		R3055	1-216-639-11	METAL CHIP	330 0.50% 1/10W
Q3020	8-729-620-06	TRANSISTOR 2SC3052-EF		R3056	1-216-648-11	METAL CHIP	750 0.50% 1/10W
Q3021	8-729-216-22	TRANSISTOR 2SA1162-G		R3057	1-216-639-11	METAL CHIP	330 0.50% 1/10W
Q3022	8-729-620-06	TRANSISTOR 2SC3052-EF		R3058	1-216-295-00	SHORT	0
Q3023	8-729-216-22	TRANSISTOR 2SA1162-G		R3059	1-216-631-11	METAL CHIP	150 0.50% 1/10W
Q3024	8-729-620-06	TRANSISTOR 2SC3052-EF		R3060	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
				R3061	1-216-642-11	METAL CHIP	430 0.50% 1/10W
				R3063	1-216-113-00	RES,CHIP	470K 5% 1/10W
				R3064	1-216-097-00	RES,CHIP	100K 5% 1/10W
				R3065	1-216-085-00	RES,CHIP	33K 5% 1/10W
				R3066	1-216-075-00	RES,CHIP	12K 5% 1/10W
				R3067	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
				R3068	1-216-075-00	RES,CHIP	12K 5% 1/10W
				R3069	1-216-041-00	RES,CHIP	470 5% 1/10W
				R3070	1-216-061-00	RES,CHIP	3.3K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3071	1-216-049-00	RES,CHIP 1K	5% 1/10W	C4034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R3072	1-216-041-00	RES,CHIP 470	5% 1/10W	C4035	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3073	1-216-113-00	RES,CHIP 470K	5% 1/10W	C4036	1-126-964-11	ELECT 10MF	20% 50V
R3075	1-216-043-91	RES,CHIP 560	5% 1/10W	C4037	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R3076	1-216-041-00	RES,CHIP 470	5% 1/10W	C4038	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R3077	1-216-075-00	RES,CHIP 12K	5% 1/10W	C4039	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R3078	1-216-071-00	RES,CHIP 8.2K	5% 1/10W	C4042	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3080	1-216-071-00	RES,CHIP 8.2K	5% 1/10W	C4043	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3081	1-216-037-00	RES,CHIP 330	5% 1/10W	C4044	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3082	1-216-043-91	RES,CHIP 560	5% 1/10W	C4045	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3083	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	C4046	1-163-092-00	CERAMIC CHIP 9PF	0.25PF 50V
R3084	1-216-037-00	RES,CHIP 330	5% 1/10W	C4047	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
R3085	1-216-043-91	RES,CHIP 560	5% 1/10W	C4048	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
R3086	1-216-041-00	RES,CHIP 470	5% 1/10W	C4049	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
R3087	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	C4050	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3090	1-216-041-00	RES,CHIP 470	5% 1/10W	C4051	1-104-664-11	ELECT 47MF	20% 16V
R3091	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	C4052	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R3092	1-216-073-00	RES,CHIP 10K	5% 1/10W	C4053	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
R3093	1-216-073-00	RES,CHIP 10K	5% 1/10W	C4054	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R3094	1-216-025-00	RES,CHIP 100	5% 1/10W	C4055	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R3096	1-216-089-00	RES,CHIP 47K	5% 1/10W	C4056	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
R3097	1-216-065-00	RES,CHIP 4.7K	5% 1/10W	C4057	1-126-964-11	ELECT 10MF	20% 50V
R3098	1-216-073-00	RES,CHIP 10K	5% 1/10W	C4058	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3099	1-216-075-00	RES,CHIP 12K	5% 1/10W	C4059	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3100	1-216-073-00	RES,CHIP 10K	5% 1/10W	C4060	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3101	1-216-073-00	RES,CHIP 10K	5% 1/10W	C4061	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R3102	1-216-049-00	RES,CHIP 1K	5% 1/10W	C4062	1-163-038-00	CERAMIC CHIP 0.1MF	25V
<CRYSTAL>				C4063	1-163-038-00	CERAMIC CHIP 0.1MF	25V
X3001	1-579-619-23	VIBRATOR, CRYSTAL		C4064	1-126-964-11	ELECT 10MF	20% 50V
*****				C4065	1-163-038-00	CERAMIC CHIP 0.1MF	25V
* A-1135-884-A B1 BOARD, COMPLETE				C4066	1-126-964-11	ELECT 10MF	20% 50V
*****				C4067	1-163-038-00	CERAMIC CHIP 0.1MF	25V
<CAPACITOR>				C4068	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4001	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4069	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4002	1-126-959-11	ELECT 0.47MF	20% 50V	C4070	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4003	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C4071	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4004	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4072	1-126-934-11	ELECT 220MF	20% 10V
C4005	1-104-664-11	ELECT 47MF	20% 16V	C4073	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4006	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4074	1-126-934-11	ELECT 220MF	20% 10V
C4007	1-104-665-11	ELECT 100MF	20% 25V	C4077	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4008	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4078	1-126-934-11	ELECT 220MF	20% 10V
C4009	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C4079	1-126-934-11	ELECT 220MF	20% 10V
C4010	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4080	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4011	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4081	1-126-934-11	ELECT 220MF	20% 10V
C4012	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C4082	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4013	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4083	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4014	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C4084	1-126-950-11	ELECT 330MF	20% 35V
C4015	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C4085	1-126-964-11	ELECT 10MF	20% 50V
C4016	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C4086	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4017	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C4087	1-104-664-11	ELECT 47MF	20% 16V
C4018	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4100	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4019	1-104-664-11	ELECT 47MF	20% 16V	C4101	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C4020	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C4102	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4021	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4103	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4022	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4104	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4023	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4105	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4024	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4106	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4029	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4107	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4030	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4108	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C4031	1-126-964-11	ELECT 10MF	20% 50V	C4109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C4110	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4033	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C4111	1-126-964-11	ELECT 10MF	20% 50V
				C4112	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C4113	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C4114	1-126-964-11	ELECT 10MF	20% 50V
				C4115	1-126-964-11	ELECT 10MF	20% 50V
				C4116	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C4117	1-126-964-11	ELECT 10MF	20% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C4118	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C4191	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C4119	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C4192	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C4120	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C4193	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C4121	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C4195	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4122	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4196	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4123	1-163-233-11	CERAMIC CHIP 18PF	5% 50V	C4197	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4124	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C4198	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4125	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4199	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4126	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4200	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4127	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C4201	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4128	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C4202	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C4129	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4203	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4130	1-126-964-11	ELECT 10MF	20% 50V	C4204	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4131	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4205	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4136	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C4206	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4137	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4207	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C4138	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4208	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4139	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4209	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4140	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4210	1-126-964-11	ELECT 10MF	20% 50V
C4141	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4211	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4142	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4212	1-126-964-11	ELECT 10MF	20% 50V
C4143	1-126-924-11	ELECT 330MF	20% 10V	C4213	1-126-964-11	ELECT 10MF	20% 50V
C4144	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C4214	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4145	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4215	1-126-964-11	ELECT 10MF	20% 50V
C4146	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4216	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4147	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4149	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C4218	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4150	1-104-664-11	ELECT 47MF	20% 16V	C4220	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C4151	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4221	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4152	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	C4222	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C4153	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C4223	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C4154	1-163-096-00	CERAMIC CHIP 13PF	5% 50V	C4224	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4155	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C4225	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C4156	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	C4226	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C4157	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4227	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4158	1-104-664-11	ELECT 47MF	20% 16V	C4228	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4159	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4229	1-126-964-11	ELECT 10MF	20% 50V
C4160	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4230	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4161	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C4231	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C4162	1-163-253-11	CERAMIC CHIP 120PF	5% 50V	C4232	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4163	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4233	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4164	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4234	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4165	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4235	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4166	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4236	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4167	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4237	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4168	1-126-964-11	ELECT 10MF	20% 50V	C4239	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4169	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4240	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4170	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4241	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4171	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4242	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4172	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4243	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4173	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4245	1-126-964-11	ELECT 10MF	20% 50V
C4174	1-126-964-11	ELECT 10MF	20% 50V	C4246	1-126-965-11	ELECT 22MF	20% 50V
C4175	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C4247	1-164-346-11	CERAMIC CHIP 1MF	16V
C4176	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4248	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4177	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4249	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4178	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4250	1-126-964-11	ELECT 10MF	20% 50V
C4179	1-126-959-11	ELECT 0.47MF	20% 50V	C4251	1-126-964-11	ELECT 10MF	20% 50V
C4180	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C4252	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4181	1-104-664-11	ELECT 47MF	20% 16V	C4253	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4182	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4254	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4183	1-104-665-11	ELECT 100MF	20% 25V	C4255	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C4184	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C4257	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4185	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4258	1-163-143-00	CERAMIC CHIP 0.0012MF	5% 50V
C4186	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C4261	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C4187	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4262	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4188	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C4263	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4189	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C4264	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4190	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C4265	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C4266	1-163-038-00	CERAMIC CHIP 0.1MF	25V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C4267	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4268	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4269	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4270	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4271	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C4272	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C4273	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C4274	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C4275	1-126-934-11	ELECT 220MF	20% 10V
C4276	1-126-934-11	ELECT 220MF	20% 10V
C4277	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4278	1-124-442-00	ELECT 330MF	20% 6.3V
C4279	1-124-442-00	ELECT 330MF	20% 6.3V
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CN1016	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
<DIODE>			
D303	8-719-404-49	DIODE MA111	
D4003	8-719-991-33	DIODE 1SS133T-77	
D4004	8-719-031-68	DIODE HVU359TRF	
D4005	8-719-914-43	DIODE DAN202K	
D4006	8-719-404-49	DIODE MA111	
D4007	8-719-031-68	DIODE HVU359TRF	
D4008	8-719-914-43	DIODE DAN202K	
D4009	8-719-914-43	DIODE DAN202K	
D4010	8-719-031-68	DIODE HVU359TRF	
D4011	8-719-031-68	DIODE HVU359TRF	
D4014	8-719-404-49	DIODE MA111	
D4015	8-719-914-43	DIODE DAN202K	
D4016	8-719-914-43	DIODE DAN202K	
D4017	8-719-914-43	DIODE DAN202K	
D4018	8-719-404-49	DIODE MA111	
D4019	8-719-031-68	DIODE HVU359TRF	
D4020	8-719-031-68	DIODE HVU359TRF	
D4022	8-719-404-49	DIODE MA111	
D4023	8-719-404-49	DIODE MA111	
<FILTER>			
FL4001	1-233-436-11	FILTER, LOW PASS	
FL4002	1-233-436-11	FILTER, LOW PASS	
FL4003	1-233-435-11	FILTER, LOW PASS	
FL4004	1-233-435-11	FILTER, LOW PASS	
FL4005	1-233-435-11	FILTER, LOW PASS	
FL4006	1-233-434-11	FILTER, LOW PASS	
FL4008	1-233-434-11	FILTER, LOW PASS	
FL4009	1-233-434-11	FILTER, LOW PASS	
FL4013	1-233-435-11	FILTER, LOW PASS	
FL4014	1-233-436-11	FILTER, LOW PASS	
FL4015	1-233-436-11	FILTER, LOW PASS	
FL4016	1-233-434-11	FILTER, LOW PASS	
FL4017	1-233-736-21	FILTER, EMI	
FL4018	1-233-736-21	FILTER, EMI	
FL4019	1-233-736-21	FILTER, EMI	
FL4020	1-233-736-21	FILTER, EMI	
FL4021	1-233-736-21	FILTER, EMI	
FL4022	1-233-736-21	FILTER, EMI	
FL4023	1-233-736-21	FILTER, EMI	
FL4024	1-233-736-21	FILTER, EMI	
FL4025	1-233-736-21	FILTER, EMI	
<IC>			
IC4001	8-752-068-39	IC CXA1840S	
IC4002	8-759-183-36	IC TDA8443B	

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC4003	8-752-369-84	IC CXD2309Q-T6	
IC4004	8-752-369-15	IC CXD2030R	
IC4005	8-752-352-09	IC CXD2300Q	
IC4006	8-752-070-58	IC CXA1860Q-T4	
IC4007	8-759-430-79	IC TDA8395T/N3	
IC4008	8-759-981-61	IC LM2901M	
IC4009	8-759-398-17	IC MC74HC04ADR2	
IC4010	8-752-370-85	IC CXD2032Q-TL	
IC4011	8-752-369-15	IC CXD2030R	
IC4012	8-752-352-09	IC CXD2300Q	
IC4013	8-752-068-39	IC CXA1840S	
IC4014	8-752-070-58	IC CXA1860Q-T4	
IC4015	8-759-430-79	IC TDA8395T/N3	
IC4016	8-759-981-61	IC LM2901M	
IC4017	8-759-398-19	IC MC74HC4053DWR2	
IC4018	8-752-338-46	IC CXD1178Q	
IC4019	8-752-337-04	IC CXD1176Q	
IC4020	8-752-337-04	IC CXD1176Q	
IC4021	8-759-352-06	IC CXD2031R-65846GJ0153EN	
IC4022	8-759-398-19	IC MC74HC4053DWR2	
IC4023	8-759-009-02	IC MC14046BF	
IC4024	8-759-234-77	IC TC4S66F	
IC4025	8-759-352-05	IC MSM548332-30TS-K	
IC4026	8-759-398-17	IC MC74HC04ADR2	
IC4027	8-759-510-71	IC BA10358F-E2	
IC4028	8-759-398-16	IC MC74HCU04DR2	
<COIL>			
L4001	1-408-591-11	INDUCTOR 1UH	
L4002	1-408-591-11	INDUCTOR 1UH	
L4004	1-414-248-11	INDUCTOR 2.2UH	
L4005	1-408-591-11	INDUCTOR 1UH	
L4006	1-408-591-11	INDUCTOR 1UH	
L4007	1-408-595-31	INDUCTOR 2.2UH	
L4008	1-408-595-31	INDUCTOR 2.2UH	
L4011	1-408-595-31	INDUCTOR 2.2UH	
L4012	1-408-595-31	INDUCTOR 2.2UH	
L4013	1-408-591-11	INDUCTOR 1UH	
L4014	1-408-591-11	INDUCTOR 1UH	
L4015	1-408-591-11	INDUCTOR 1UH	
L4016	1-408-591-11	INDUCTOR 1UH	
L4018	1-408-591-11	INDUCTOR 1UH	
L4019	1-414-248-11	INDUCTOR 2.2UH	
L4020	1-408-591-11	INDUCTOR 1UH	
L4021	1-408-599-31	INDUCTOR 4.7UH	
L4022	1-408-599-31	INDUCTOR 4.7UH	
L4023	1-414-248-11	INDUCTOR 2.2UH	
L4024	1-414-248-11	INDUCTOR 2.2UH	
L4025	1-408-591-11	INDUCTOR 1UH	
L4026	1-408-591-11	INDUCTOR 1UH	
L4027	1-412-003-41	INDUCTOR CHIP 5.6UH	
L4028	1-414-248-11	INDUCTOR 2.2UH	
L4029	1-414-248-11	INDUCTOR 2.2UH	
L4030	1-414-248-11	INDUCTOR 2.2UH	
L4031	1-408-595-31	INDUCTOR 2.2UH	
L4032	1-408-595-31	INDUCTOR 2.2UH	
<TRANSISTOR>			
Q4001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4002	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4005	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4008	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4009	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q4010	8-729-216-22	TRANSISTOR 2SA1162-G		Q4087	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4011	8-729-216-22	TRANSISTOR 2SA1162-G		Q4088	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q4013	8-729-620-06	TRANSISTOR 2SC3052-EF		Q4089	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4014	8-729-620-06	TRANSISTOR 2SC3052-EF		Q4090	8-729-900-53	TRANSISTOR DTC114EK	
Q4015	8-729-216-22	TRANSISTOR 2SA1162-G		Q4091	8-729-900-53	TRANSISTOR DTC114EK	
Q4016	8-729-620-06	TRANSISTOR 2SC3052-EF		Q4092	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4017	8-729-620-06	TRANSISTOR 2SC3052-EF		Q4093	8-729-920-59	TRANSISTOR IMX2	
Q4018	8-729-216-22	TRANSISTOR 2SA1162-G				<RESISTOR>	
Q4020	8-729-900-53	TRANSISTOR DTC114EK		R4001	1-216-077-00	RES,CHIP 15K	5% 1/10W
Q4021	8-729-027-23	TRANSISTOR DTA114EKA-T146		R4002	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4022	8-729-216-22	TRANSISTOR 2SA1162-G		R4003	1-216-059-00	RES,CHIP 2.7K	5% 1/10W
Q4023	8-729-216-22	TRANSISTOR 2SA1162-G		R4004	1-216-085-00	RES,CHIP 33K	5% 1/10W
Q4024	8-729-620-06	TRANSISTOR 2SC3052-EF		R4005	1-216-673-11	METAL CHIP 8.2K	0.50% 1/10W
Q4025	8-729-620-06	TRANSISTOR 2SC3052-EF		R4007	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4026	8-729-620-06	TRANSISTOR 2SC3052-EF		R4009	1-216-037-00	RES,CHIP 330	5% 1/10W
Q4027	8-729-620-06	TRANSISTOR 2SC3052-EF		R4010	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4028	8-729-620-06	TRANSISTOR 2SC3052-EF		R4011	1-216-059-00	RES,CHIP 2.7K	5% 1/10W
Q4029	8-729-620-06	TRANSISTOR 2SC3052-EF		R4012	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q4030	8-729-620-06	TRANSISTOR 2SC3052-EF		R4013	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q4031	8-729-620-06	TRANSISTOR 2SC3052-EF		R4014	1-216-025-00	RES,CHIP 100	5% 1/10W
Q4032	8-729-620-06	TRANSISTOR 2SC3052-EF		R4015	1-216-089-00	RES,CHIP 47K	5% 1/10W
Q4034	8-729-216-22	TRANSISTOR 2SA1162-G		R4016	1-216-133-00	RES,CHIP 3.3M	5% 1/10W
Q4035	8-729-216-22	TRANSISTOR 2SA1162-G		R4017	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4036	8-729-216-22	TRANSISTOR 2SA1162-G		R4018	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4038	8-729-620-06	TRANSISTOR 2SC3052-EF		R4019	1-216-079-00	RES,CHIP 18K	5% 1/10W
Q4039	8-729-216-22	TRANSISTOR 2SA1162-G		R4020	1-216-075-00	RES,CHIP 12K	5% 1/10W
Q4040	8-729-620-06	TRANSISTOR 2SC3052-EF		R4021	1-216-075-00	RES,CHIP 12K	5% 1/10W
Q4043	8-729-216-22	TRANSISTOR 2SA1162-G		R4022	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q4045	8-729-216-22	TRANSISTOR 2SA1162-G		R4023	1-216-097-00	RES,CHIP 100K	5% 1/10W
Q4046	8-729-216-22	TRANSISTOR 2SA1162-G		R4024	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q4047	8-729-620-06	TRANSISTOR 2SC3052-EF		R4025	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q4048	8-729-620-06	TRANSISTOR 2SC3052-EF		R4026	1-216-055-00	RES,CHIP 1.8K	5% 1/10W
Q4049	8-729-620-06	TRANSISTOR 2SC3052-EF		R4027	1-216-055-00	RES,CHIP 1.8K	5% 1/10W
Q4050	8-729-620-06	TRANSISTOR 2SC3052-EF		R4028	1-216-055-00	RES,CHIP 1.8K	5% 1/10W
Q4051	8-729-620-06	TRANSISTOR 2SC3052-EF		R4029	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q4052	8-729-620-06	TRANSISTOR 2SC3052-EF		R4030	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q4053	8-729-620-06	TRANSISTOR 2SC3052-EF		R4031	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4054	8-729-620-06	TRANSISTOR 2SC3052-EF		R4032	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4055	8-729-620-06	TRANSISTOR 2SC3052-EF		R4033	1-216-025-00	RES,CHIP 100	5% 1/10W
Q4056	1-801-806-11	TRANSISTOR DTC114EKA-T146		R4034	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4057	8-729-216-22	TRANSISTOR 2SA1162-G		R4035	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4058	8-729-216-22	TRANSISTOR 2SA1162-G		R4036	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4059	8-729-216-22	TRANSISTOR 2SA1162-G		R4040	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
Q4060	8-729-216-22	TRANSISTOR 2SA1162-G		R4041	1-216-033-00	RES,CHIP 220	5% 1/10W
Q4061	8-729-216-22	TRANSISTOR 2SA1162-G		R4042	1-216-043-91	RES,CHIP 560	5% 1/10W
Q4062	8-729-216-22	TRANSISTOR 2SA1162-G		R4044	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4063	8-729-216-22	TRANSISTOR 2SA1162-G		R4045	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
Q4064	8-729-620-06	TRANSISTOR 2SC3052-EF		R4046	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4065	8-729-620-06	TRANSISTOR 2SC3052-EF		R4047	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
Q4067	8-729-620-06	TRANSISTOR 2SC3052-EF		R4048	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4068	8-729-620-06	TRANSISTOR 2SC3052-EF		R4049	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
Q4070	8-729-620-06	TRANSISTOR 2SC3052-EF		R4050	1-216-645-11	METAL CHIP 560	0.50% 1/10W
Q4071	8-729-620-06	TRANSISTOR 2SC3052-EF		R4051	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4072	8-729-620-06	TRANSISTOR 2SC3052-EF		R4052	1-216-631-11	METAL CHIP 150	0.50% 1/10W
Q4073	8-729-620-06	TRANSISTOR 2SC3052-EF		R4053	1-216-631-11	METAL CHIP 150	0.50% 1/10W
Q4074	8-729-216-22	TRANSISTOR 2SA1162-G		R4054	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4075	8-729-900-53	TRANSISTOR DTC114EK		R4055	1-216-645-11	METAL CHIP 560	0.50% 1/10W
Q4076	8-729-027-23	TRANSISTOR DTA114EKA-T146		R4056	1-216-043-91	RES,CHIP 560	5% 1/10W
Q4077	8-729-216-22	TRANSISTOR 2SA1162-G		R4057	1-216-045-00	RES,CHIP 680	5% 1/10W
Q4078	8-729-620-06	TRANSISTOR 2SC3052-EF		R4058	1-216-632-11	METAL CHIP 160	0.50% 1/10W
Q4079	8-729-027-23	TRANSISTOR DTA114EKA-T146		R4059	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
Q4080	8-729-216-22	TRANSISTOR 2SA1162-G		R4060	1-216-660-11	METAL CHIP 2.4K	0.50% 1/10W
Q4081	8-729-620-06	TRANSISTOR 2SC3052-EF		R4061	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
Q4082	8-729-216-22	TRANSISTOR 2SA1162-G		R4062	1-216-091-00	RES,CHIP 56K	5% 1/10W
Q4083	8-729-900-53	TRANSISTOR DTC114EK		R4063	1-216-097-00	RES,CHIP 100K	5% 1/10W
Q4084	8-729-027-23	TRANSISTOR DTA114EKA-T146		R4064	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q4085	8-729-216-22	TRANSISTOR 2SA1162-G		R4065	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q4086	8-729-620-06	TRANSISTOR 2SC3052-EF					

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R4066	1-216-097-00	RES,CHIP	100K	5%	1/10W	R4137	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R4067	1-216-091-00	RES,CHIP	56K	5%	1/10W	R4138	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R4068	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4139	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4069	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R4140	1-216-025-00	RES,CHIP	100	5%	1/10W
R4070	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R4141	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R4071	1-216-043-91	RES,CHIP	560	5%	1/10W	R4142	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R4072	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R4143	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R4073	1-216-636-11	METAL CHIP	240	0.50%	1/10W	R4144	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R4074	1-216-097-00	RES,CHIP	100K	5%	1/10W	R4145	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4075	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4146	1-208-845-11	RES,CHIP	1M	5%	1/10W
R4076	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4147	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R4077	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4148	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R4078	1-216-075-00	RES,CHIP	12K	5%	1/10W	R4149	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R4079	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4150	1-216-085-00	RES,CHIP	33K	5%	1/10W
R4080	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4151	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R4081	1-216-624-11	METAL CHIP	75	0.50%	1/10W	R4152	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R4082	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W	R4153	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4083	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R4154	1-216-077-00	RES,CHIP	15K	5%	1/10W
R4084	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R4155	1-216-091-00	RES,CHIP	56K	5%	1/10W
R4085	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R4157	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4086	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R4158	1-208-845-11	RES,CHIP	1M	5%	1/10W
R4087	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R4159	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4089	1-216-075-00	RES,CHIP	12K	5%	1/10W	R4160	1-216-097-00	RES,CHIP	100K	5%	1/10W
R4090	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4161	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4091	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4162	1-216-097-00	RES,CHIP	100K	5%	1/10W
R4093	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R4163	1-216-091-00	RES,CHIP	56K	5%	1/10W
R4094	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R4164	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4095	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R4165	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R4096	1-216-043-91	RES,CHIP	560	5%	1/10W	R4166	1-216-097-00	RES,CHIP	100K	5%	1/10W
R4098	1-216-636-11	METAL CHIP	240	0.50%	1/10W	R4167	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R4099	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R4168	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R4100	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4169	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R4101	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R4170	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R4102	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4171	1-216-636-11	METAL CHIP	240	0.50%	1/10W
R4103	1-216-624-11	METAL CHIP	75	0.50%	1/10W	R4173	1-216-075-00	RES,CHIP	12K	5%	1/10W
R4104	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4174	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R4105	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4175	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4106	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R4178	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R4107	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4179	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R4108	1-216-097-00	RES,CHIP	100K	5%	1/10W	R4180	1-216-043-91	RES,CHIP	560	5%	1/10W
R4109	1-216-105-00	RES,CHIP	220K	5%	1/10W	R4181	1-216-045-00	RES,CHIP	680	5%	1/10W
R4110	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4182	1-216-636-11	METAL CHIP	240	0.50%	1/10W
R4111	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4186	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R4112	1-216-648-11	METAL CHIP	750	0.50%	1/10W	R4187	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R4113	1-216-636-11	METAL CHIP	240	0.50%	1/10W	R4188	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R4114	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R4189	1-216-079-00	RES,CHIP	18K	5%	1/10W
R4115	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R4190	1-216-075-00	RES,CHIP	12K	5%	1/10W
R4116	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R4191	1-216-075-00	RES,CHIP	12K	5%	1/10W
R4117	1-216-626-11	METAL CHIP	91	0.50%	1/10W	R4192	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4118	1-216-650-11	METAL CHIP	910	0.50%	1/10W	R4193	1-216-077-00	RES,CHIP	15K	5%	1/10W
R4119	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R4194	1-216-045-00	RES,CHIP	680	5%	1/10W
R4120	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4195	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R4121	1-216-083-00	RES,CHIP	27K	5%	1/10W	R4196	1-216-085-00	RES,CHIP	33K	5%	1/10W
R4122	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4197	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R4123	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4198	1-216-033-00	RES,CHIP	220	5%	1/10W
R4124	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4201	1-216-037-00	RES,CHIP	330	5%	1/10W
R4125	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4202	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R4126	1-216-081-00	RES,CHIP	22K	5%	1/10W	R4203	1-216-045-00	RES,CHIP	680	5%	1/10W
R4127	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R4204	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4128	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4206	1-216-113-00	RES,CHIP	470K	5%	1/10W
R4129	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4207	1-216-025-00	RES,CHIP	100	5%	1/10W
R4130	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R4208	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R4131	1-216-049-00	RES,CHIP	1K	5%	1/10W	R4209	1-216-033-00	RES,CHIP	220	5%	1/10W
R4132	1-216-085-00	RES,CHIP	33K	5%	1/10W	R4210	1-216-033-00	RES,CHIP	220	5%	1/10W
R4133	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R4211	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R4134	1-216-073-00	RES,CHIP	10K	5%	1/10W	R4212	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4135	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R4213	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4136	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R4214	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R4215	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4287	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4216	1-216-097-00	RES,CHIP	100K 5% 1/10W	R4288	1-216-041-00	RES,CHIP	470 5% 1/10W
R4217	1-216-105-00	RES,CHIP	220K 5% 1/10W	R4289	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4218	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4290	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4219	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4291	1-216-041-00	RES,CHIP	470 5% 1/10W
R4220	1-216-648-11	METAL CHIP	750 0.50% 1/10W	R4292	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R4221	1-216-636-11	METAL CHIP	240 0.50% 1/10W	R4293	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R4222	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R4294	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4223	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R4295	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4224	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R4296	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R4225	1-216-626-11	METAL CHIP	91 0.50% 1/10W	R4297	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R4226	1-216-650-11	METAL CHIP	910 0.50% 1/10W	R4298	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4227	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R4299	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R4228	1-216-681-11	METAL CHIP	18K 0.50% 1/10W	R4300	1-216-041-00	RES,CHIP	470 5% 1/10W
R4229	1-216-025-00	RES,CHIP	100 5% 1/10W	R4301	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R4230	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4302	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R4231	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R4303	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R4232	1-216-085-00	RES,CHIP	33K 5% 1/10W	R4304	1-216-041-00	RES,CHIP	470 5% 1/10W
R4233	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4305	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4234	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R4306	1-216-089-00	RES,CHIP	47K 5% 1/10W
R4235	1-216-081-00	RES,CHIP	22K 5% 1/10W	R4307	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R4236	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R4308	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4237	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4309	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4238	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4313	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4239	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R4314	1-216-085-00	RES,CHIP	33K 5% 1/10W
R4240	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4315	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4241	1-216-083-00	RES,CHIP	27K 5% 1/10W	R4316	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4242	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4318	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4243	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4319	1-216-081-00	RES,CHIP	22K 5% 1/10W
R4244	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4320	1-216-025-00	RES,CHIP	100 5% 1/10W
R4245	1-216-081-00	RES,CHIP	22K 5% 1/10W	R4321	1-216-025-00	RES,CHIP	100 5% 1/10W
R4246	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R4323	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4247	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R4324	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4248	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R4325	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4249	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4326	1-216-295-00	SHORT	0
R4250	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R4327	1-216-295-00	SHORT	0
R4251	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R4328	1-216-295-00	SHORT	0
R4252	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R4329	1-216-295-00	SHORT	0
R4253	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4330	1-216-295-00	SHORT	0
R4254	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4331	1-216-295-00	SHORT	0
R4255	1-216-091-00	RES,CHIP	56K 5% 1/10W	R4332	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4256	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R4333	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4257	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4334	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4259	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W	R4335	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R4260	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R4336	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R4261	1-216-033-00	RES,CHIP	220 5% 1/10W	R4337	1-216-075-00	RES,CHIP	12K 5% 1/10W
R4262	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R4338	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4263	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R4339	1-216-001-00	RES,CHIP	10 5% 1/10W
R4265	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R4340	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4267	1-216-037-00	RES,CHIP	330 5% 1/10W	R4341	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4268	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4342	1-216-001-00	RES,CHIP	10 5% 1/10W
R4269	1-216-049-00	RES,CHIP	1K 5% 1/10W	R4343	1-216-077-00	RES,CHIP	15K 5% 1/10W
R4270	1-216-037-00	RES,CHIP	330 5% 1/10W	R4344	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4271	1-216-045-00	RES,CHIP	680 5% 1/10W	R4345	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R4272	1-216-637-11	METAL CHIP	270 0.50% 1/10W	R4346	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R4273	1-216-637-11	METAL CHIP	270 0.50% 1/10W	R4347	1-216-075-00	RES,CHIP	12K 5% 1/10W
R4274	1-216-637-11	METAL CHIP	270 0.50% 1/10W	R4348	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4275	1-216-627-11	METAL CHIP	100 0.50% 1/10W	R4349	1-216-001-00	RES,CHIP	10 5% 1/10W
R4276	1-216-627-11	METAL CHIP	100 0.50% 1/10W	R4350	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4277	1-216-627-11	METAL CHIP	100 0.50% 1/10W	R4351	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4278	1-216-025-00	RES,CHIP	100 5% 1/10W	R4352	1-216-001-00	RES,CHIP	10 5% 1/10W
R4279	1-216-041-00	RES,CHIP	470 5% 1/10W	R4353	1-216-077-00	RES,CHIP	15K 5% 1/10W
R4280	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R4354	1-216-049-00	RES,CHIP	1K 5% 1/10W
R4281	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R4355	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4282	1-216-025-00	RES,CHIP	100 5% 1/10W	R4357	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4283	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4358	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R4284	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4359	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R4285	1-216-041-00	RES,CHIP	470 5% 1/10W	R4360	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R4286	1-216-073-00	RES,CHIP	10K 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

B₁ **F₂** **F₁**

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R4361	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R4362	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R4363	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4364	1-216-049-00	RES,CHIP	1K	5%	1/10W
R4366	1-216-295-00	SHORT	0		
R4368	1-216-295-00	SHORT	0		
R4370	1-216-025-00	RES,CHIP	100	5%	1/10W
R4371	1-216-025-00	RES,CHIP	100	5%	1/10W
R4373	1-216-295-00	SHORT	0		
R4375	1-216-295-00	SHORT	0		
R4376	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R4377	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
<VARIABLE RESISTOR>					
RV4002	1-241-393-21	RES, ADJ, METAL GLAZE	2.2K		
<CRYSTAL>					
X4001	1-760-895-21	VIBRATOR, CERAMIC			
X4002	1-760-457-11	VIBRATOR, CRYSTAL (VCO)			
X4003	1-527-722-00	VIBRATOR, CRYSTAL			
X4004	1-760-457-11	VIBRATOR, CRYSTAL (VCO)			
X4005	1-527-722-00	VIBRATOR, CRYSTAL			
X4006	1-760-895-21	VIBRATOR, CERAMIC			

* A-1241-255-A F2 BOARD, COMPLETE					

<CAPACITOR>					
C651	Δ 1-136-519-12	FILM	0.47MF	20%	300V
C652	Δ 1-136-518-12	FILM	0.33MF	20%	300V
C653	1-107-670-11	ELECT	10MF	20%	400V
C655	1-126-967-11	ELECT	47MF	20%	50V
C657	1-126-968-11	ELECT	100MF	20%	50V
C658	1-126-951-11	ELECT	470MF	20%	35V
C659	1-104-665-11	ELECT	100MF	20%	25V
C660	1-104-664-11	ELECT	47MF	20%	25V
C661	1-104-664-11	ELECT	47MF	20%	25V
C662	Δ 1-113-893-51	CERAMIC	0.0047MF	20%	250V
C663	Δ 1-113-924-51	CERAMIC	0.0047MF	20%	250V
C664	Δ 1-113-893-51	CERAMIC	0.0047MF	20%	250V
C665	Δ 1-113-924-51	CERAMIC	0.0047MF	20%	250V
C667	1-164-644-11	CERAMIC	330PF	10%	500V
C668	1-164-644-11	CERAMIC	330PF	10%	500V
<CONNECTOR>					
CN6501	* 1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P		
CN6503	* 1-564-506-11	PLUG, CONNECTOR	3P		
CN6504	* 1-580-843-11	PIN, CONNECTOR (POWER)			
CN6505	* 1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P		
CN6506	* 1-564-508-11	PLUG, CONNECTOR	5P		
CN6507	* 1-564-506-11	PLUG, CONNECTOR	3P		
CN6509	1-695-915-11	TAB (CONTACT)			
CN6510	* 1-564-506-11	PLUG, CONNECTOR	3P		
<DIODE>					
D652	Δ 8-719-510-35	DIODE D2SBA60F			
D653	8-719-979-64	DIODE UF4005PKG23			
D654	8-719-059-23	DIODE P6KE200AG23			
D655	8-719-979-58	DIODE EGP10D			
D656	8-719-979-58	DIODE EGP10D			
D657	8-719-921-88	DIODE MTZJ-13B			

REF. NO.	PART NO.	DESCRIPTION	REMARK		
D658	8-719-510-64	DIODE S2LA20F			
D659	8-719-911-19	DIODE ISS119-25			
D660	8-719-302-43	DIODE EL1Z			
D661	8-719-302-43	DIODE EL1Z			
<FUSE>					
F651	Δ 1-532-504-41	FUSE 4A/250V			
	1-533-230-11	HOLDER, FUSE ; F651			
<IC>					
IC651	8-759-426-45	IC PWR-TOP210PFI			
<COIL>					
L652	1-412-549-31	INDUCTOR 1mH			
L653	1-412-549-31	INDUCTOR 1mH			
<FILTER>					
LF651	Δ 1-424-436-11	TRANSFORMER, LINE FILTER			
LF652	Δ 1-424-436-11	TRANSFORMER, LINE FILTER			
<TRANSISTOR>					
Q651	8-729-034-00	TRANSISTOR 2SA1282ATP-EF			
Q652	8-729-029-66	TRANSISTOR DTC114ESA			
<RESISTOR>					
R651	Δ 1-244-945-91	CARBON	1M	5%	1/2W
R652	Δ 1-202-961-11	CEMENTED	1.8	5%	10W
R653	Δ 1-202-961-11	CEMENTED	1.8	5%	10W
R654	1-211-771-11	FUSIBLE	4.7	5%	1/4W
R656	1-247-791-91	CARBON	22	5%	1/4W
R659	1-249-421-11	CARBON	2.2K	5%	1/4W
R662	Δ 1-218-265-21	METAL	8.2M	5%	1W
<RELAY>					
RY651	Δ 1-755-018-11	RELAY			
<TRANSFORMER>					
T651	Δ 1-429-808-21	TRANSFORMER, CONVERTER			

* A-1241-256-A F1 BOARD, COMPLETE					

<CONNECTOR>					
CN8031	* 1-564-518-11	PLUG, CONNECTOR	3P		
<SWITCH>					
S8031	Δ 1-570-826-11	SWITCH, PUSH (1 KEY)			



REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1297-874-A A BOARD, COMPLETE *****			
	4-202-373-01	SPRING, IC	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C1001	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1002	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1005	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1006	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1007	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1008	1-104-664-11	ELECT 47MF	20% 16V
C1009	1-104-664-11	ELECT 47MF	20% 16V
C1010	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1011	1-126-961-11	ELECT 2.2MF	20% 50V
C1012	1-126-961-11	ELECT 2.2MF	20% 50V
C1013	1-126-961-11	ELECT 2.2MF	20% 50V
C1014	1-126-965-11	ELECT 22MF	20% 50V
C1015	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1016	1-126-934-11	ELECT 220MF	20% 10V
C1020	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1022	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1023	1-104-664-11	ELECT 47MF	20% 16V
C1024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1026	1-126-961-11	ELECT 2.2MF	20% 50V
C1028	1-126-961-11	ELECT 2.2MF	20% 50V
C1029	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C1030	1-104-664-11	ELECT 47MF	20% 16V
C1031	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1033	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1034	1-104-664-11	ELECT 47MF	20% 16V
C1035	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1036	1-126-934-11	ELECT 220MF	20% 16V
C1038	1-104-664-11	ELECT 47MF	20% 16V
C1039	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1040	1-104-664-11	ELECT 47MF	20% 16V
C1041	1-104-664-11	ELECT 47MF	20% 16V
C1042	1-104-664-11	ELECT 47MF	20% 16V
C1043	1-104-664-11	ELECT 47MF	20% 16V
C1044	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1045	1-126-934-11	ELECT 220MF	20% 10V
C1046	1-104-664-11	ELECT 47MF	20% 16V
C1047	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1048	1-104-664-11	ELECT 47MF	20% 16V
C1052	1-104-664-11	ELECT 47MF	20% 16V
C1053	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1054	1-104-664-11	ELECT 47MF	20% 16V
C1055	1-126-964-11	ELECT 10MF	20% 50V
C1056	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1057	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1058	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1059	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1060	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1061	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1062	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1066	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1069	1-126-964-11	ELECT 10MF	20% 50V
C1070	1-126-964-11	ELECT 10MF	20% 50V
C1071	1-126-964-11	ELECT 10MF	20% 50V
C1072	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1074	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C1075	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C1076	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1078	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1079	1-164-346-11	CERAMIC CHIP 1MF	16V
C1080	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C1081	1-164-346-11	CERAMIC CHIP 1MF	16V
C1083	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C1084	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1085	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1087	1-104-664-11	ELECT 47MF	20% 16V
C1088	1-104-664-11	ELECT 47MF	20% 16V
C1089	1-104-664-11	ELECT 47MF	20% 16V
C1090	1-104-664-11	ELECT 47MF	20% 16V
C1091	1-126-960-11	ELECT 1MF	20% 50V
C1092	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1093	1-126-960-11	ELECT 1MF	20% 50V
C1094	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1095	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1096	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1097	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1098	1-126-934-11	ELECT 220MF	20% 16V
C1101	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C1102	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1104	1-126-964-11	ELECT 10MF	20% 50V
C1105	1-126-964-11	ELECT 10MF	20% 50V
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1107	1-104-664-11	ELECT 47MF	20% 16V
C1108	1-126-964-11	ELECT 10MF	20% 50V
C1110	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1113	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1114	1-104-664-11	ELECT 47MF	20% 16V
C1115	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1116	1-104-664-11	ELECT 47MF	20% 16V
C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1118	1-104-664-11	ELECT 47MF	20% 16V
C1119	1-104-664-11	ELECT 47MF	20% 16V
C1120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1121	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1122	1-104-664-11	ELECT 47MF	20% 16V
C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1126	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1127	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C1129	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1130	1-126-960-11	ELECT 1MF	20% 50V
C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1133	1-104-664-11	ELECT 47MF	20% 16V
C1134	1-126-964-11	ELECT 10MF	20% 50V
C1135	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1137	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C1142	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1143	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1147	1-104-664-11	ELECT 47MF	20% 16V
C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1150	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1151	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1152	1-104-664-11	ELECT 47MF	20% 16V
C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1158	1-104-664-11	ELECT 47MF	20% 16V
C1159	1-104-664-11	ELECT 47MF	20% 16V
C1162	1-104-664-11	ELECT 47MF	20% 16V
C1163	1-104-664-11	ELECT 47MF	20% 16V
C1164	1-104-664-11	ELECT 47MF	20% 16V
C1165	1-104-664-11	ELECT 47MF	20% 16V
C1166	1-104-664-11	ELECT 47MF	20% 16V
C1167	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1168	1-126-961-11	ELECT 2.2MF	20% 50V
C1169	1-126-965-11	ELECT 22MF	20% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1170	1-126-960-11	ELECT	1MF 20% 50V	C1242	1-163-014-00	CERAMIC CHIP 0.0027MF 5% 50V	
C1171	1-136-165-00	FILM	0.1MF 5% 50V	C1243	1-163-014-00	CERAMIC CHIP 0.0027MF 5% 50V	
C1172	1-124-699-11	ELECT	220MF 20% 25V	C1244	1-163-010-11	CERAMIC CHIP 0.0012MF 10% 50V	
C1173	1-124-699-11	ELECT	220MF 20% 25V	C1245	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C1174	1-136-165-00	FILM	0.1MF 5% 50V	C1246	1-126-965-11	ELECT 22MF 20% 50V	
C1175	1-104-664-11	ELECT	47MF 20% 16V	C1247	1-126-933-11	ELECT 100MF 20% 16V	
C1176	1-126-943-11	ELECT	2200MF 20% 25V	C1248	1-164-348-11	CERAMIC CHIP 0.12MF 10% 25V	
C1177	1-126-943-11	ELECT	2200MF 20% 25V	C1249	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1178	1-126-041-11	ELECT	2200MF 20% 35V	C1250	1-163-986-00	CERAMIC CHIP 0.027MF 10% 25V	
C1179	1-126-961-11	ELECT	2.2MF 20% 50V	C1251	1-163-986-00	CERAMIC CHIP 0.027MF 10% 25V	
C1180	1-136-165-00	FILM	0.1MF 5% 50V	C1252	1-163-022-00	CERAMIC CHIP 0.012MF 10% 50V	
C1181	1-104-664-11	ELECT	47MF 20% 16V	C1253	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1182	1-104-664-11	ELECT	47MF 20% 16V	C1254	1-163-014-00	CERAMIC CHIP 0.0027MF 5% 50V	
C1183	1-126-960-11	ELECT	1MF 20% 50V	C1255	1-163-014-00	CERAMIC CHIP 0.0027MF 5% 50V	
C1184	1-126-965-11	ELECT	22MF 20% 50V	C1256	1-163-010-11	CERAMIC CHIP 0.0012MF 10% 50V	
C1185	1-104-664-11	ELECT	47MF 20% 16V	C1257	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C1186	1-104-664-11	ELECT	47MF 20% 16V	C1258	1-136-165-00	FILM 0.1MF 5% 50V	
C1187	1-137-371-11	FILM	0.015MF 5% 50V	C1259	1-126-964-11	ELECT 10MF 20% 50V	
C1188	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	C1260	1-137-372-11	FILM 0.022MF 5% 50V	
C1189	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	C1261	1-137-372-11	FILM 0.022MF 5% 50V	
C1190	1-104-664-11	ELECT	47MF 20% 16V	C1262	1-137-371-11	FILM 0.015MF 5% 50V	
C1191	1-137-371-11	FILM	0.015MF 5% 50V	C1263	1-130-489-00	FILM 0.033MF 5% 50V	
C1192	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V	C1264	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1193	1-104-664-11	ELECT	47MF 20% 16V	C1265	1-126-767-11	ELECT 1000MF 20% 16V	
C1194	1-137-372-11	FILM	0.022MF 5% 50V	C1266	1-126-933-11	ELECT 100MF 20% 16V	
C1195	1-126-961-11	ELECT	2.2MF 20% 50V	C1267	1-126-964-11	ELECT 10MF 20% 50V	
C1196	1-126-961-11	ELECT	2.2MF 20% 50V	C1268	1-126-933-11	ELECT 100MF 20% 16V	
C1197	1-137-372-11	FILM	0.022MF 5% 50V	C1269	1-126-964-11	ELECT 10MF 20% 50V	
C1198	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	C1270	1-126-964-11	ELECT 10MF 20% 50V	
C1199	1-104-664-11	ELECT	47MF 20% 16V	C1271	1-136-165-00	FILM 0.1MF 5% 50V	
C1200	1-136-165-00	FILM	0.1MF 5% 50V	C1272	1-126-964-11	ELECT 10MF 20% 50V	
C1201	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V	C1273	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
C1202	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V	C1274	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
C1203	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1278	1-126-964-11	ELECT 10MF 20% 50V	
C1204	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1279	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1205	1-126-964-11	ELECT	10MF 20% 50V	C1280	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C1206	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	C1281	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C1207	1-137-613-11	FILM	0.0018MF 2% 100V	C1282	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C1208	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1283	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C1209	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1284	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1210	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1285	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C1211	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1286	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1212	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1287	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1213	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1288	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1214	1-104-664-11	ELECT	47MF 20% 16V	C1289	1-126-964-11	ELECT 10MF 20% 50V	
C1215	1-104-664-11	ELECT	47MF 20% 16V	C1290	1-126-964-11	ELECT 10MF 20% 50V	
C1216	1-163-019-00	CERAMIC CHIP	0.0068MF 10% 50V	C1291	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1217	1-163-019-00	CERAMIC CHIP	0.0068MF 10% 50V	C1306	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C1218	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V	C1307	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C1219	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V	C1311	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1222	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1312	1-104-664-11	ELECT 47MF 20% 16V	
C1223	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1313	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C1224	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1314	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1225	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1315	1-104-664-11	ELECT 47MF 20% 16V	
C1226	1-163-011-11	CERAMIC CHIP	0.0015MF 10% 50V	C1316	1-163-259-91	CERAMIC CHIP 220PF 5% 50V	
C1227	1-163-011-11	CERAMIC CHIP	0.0015MF 10% 50V	C1317	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1228	1-126-961-11	ELECT	2.2MF 20% 50V	C1319	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1229	1-126-961-11	ELECT	2.2MF 20% 50V	C1320	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1230	1-136-177-00	FILM	1MF 5% 50V	C1321	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1231	1-136-177-00	FILM	1MF 5% 50V	C1322	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C1232	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V	C1323	1-126-964-11	ELECT 10MF 20% 50V	
C1233	1-163-007-11	CERAMIC CHIP	680PF 10% 50V	C1324	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1234	1-126-964-11	ELECT	10MF 20% 50V	C1325	1-126-933-11	ELECT 100MF 20% 16V	
C1236	1-164-348-11	CERAMIC CHIP	0.12MF 10% 25V	C1326	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1237	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1328	1-126-964-11	ELECT 10MF 20% 50V	
C1238	1-163-986-00	CERAMIC CHIP	0.027MF 10% 25V	C1329	1-126-960-11	ELECT 1MF 20% 50V	
C1239	1-163-986-00	CERAMIC CHIP	0.027MF 10% 25V	C1330	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1240	1-163-022-00	CERAMIC CHIP	0.012MF 10% 50V	C1331	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1241	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1439	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1440	1-126-965-11	ELECT 22MF	20% 50V
C1334	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1441	1-126-965-11	ELECT 22MF	20% 50V
C1335	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1442	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1336	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1443	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1337	1-126-934-11	ELECT 220MF	20% 10V	C1444	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C1338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1445	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1339	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1448	1-126-964-11	ELECT 10MF	20% 50V
C1340	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	<OSCILLATOR>			
C1341	1-126-959-11	ELECT 0.47MF	20% 50V	<FILTER>			
C1342	1-164-346-11	CERAMIC CHIP 1MF	16V	CD1001	1-527-992-31	OSCILLATOR, CERAMIC	
C1343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<CONNECTOR>			
C1344	1-126-961-11	ELECT 2.2MF	20% 50V	CN002	1-695-915-11	TAB (CONTACT)	
C1345	1-126-965-11	ELECT 22MF	20% 50V	CN0806	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1346	1-164-222-11	CERAMIC CHIP 0.22MF	25V	CN1001	* 1-564-505-11	PLUG, CONNECTOR 2P	
C1347	1-164-222-11	CERAMIC CHIP 0.22MF	25V	CN1002	* 1-564-520-11	PLUG, CONNECTOR 5P	
C1352	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1003	* 1-564-513-11	PLUG, CONNECTOR 10P	
C1353	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1004	* 1-564-508-11	PLUG, CONNECTOR 5P	
C1355	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	CN1008	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1356	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1009	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1358	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1019	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1359	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1021	* 1-564-509-11	PLUG, CONNECTOR 6P	
C1363	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CN1023	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1365	1-126-965-11	ELECT 22MF	20% 50V	CN1024	* 1-564-507-11	PLUG, CONNECTOR 4P	
C1367	1-126-933-11	ELECT 100MF	20% 16V	CN1025	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1368	1-164-346-11	CERAMIC CHIP 1MF	16V	CN1031	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1369	1-163-031-11	CERAMIC CHIP 0.01MF	50V	CN1032	* 1-564-512-11	PLUG, CONNECTOR 9P	
C1372	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	CN1301	* 1-564-513-11	PLUG, CONNECTOR 10P	
C1373	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	CN1302	* 1-564-512-11	PLUG, CONNECTOR 9P	
C1375	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CN1303	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1376	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	CN4002	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1377	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<DIODE>			
C1378	1-164-346-11	CERAMIC CHIP 1MF	16V	D1001	8-719-914-43	DIODE DAN202K	
C1382	1-164-346-11	CERAMIC CHIP 1MF	16V	D1002	8-719-914-42	DIODE DA204K	
C1384	1-164-346-11	CERAMIC CHIP 1MF	16V	D1003	8-719-914-44	DIODE DAP202K	
C1385	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1004	8-719-982-27	DIODE MTZI-33C	
C1387	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D1007	8-719-110-72	DIODE RD30ESB2	
C1389	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1008	8-719-110-72	DIODE RD30ESB2	
C1390	1-126-934-11	ELECT 220MF	20% 10V	D1009	8-719-914-43	DIODE DAN202K	
C1391	1-126-965-11	ELECT 22MF	20% 50V	D1010	8-719-914-43	DIODE DAN202K	
C1392	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1011	8-719-914-43	DIODE DAN202K	
C1394	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1012	8-719-404-49	DIODE MA111	
C1397	1-126-767-11	ELECT 1000MF	20% 16V	D1013	8-719-801-78	DIODE 1SS184	
C1398	1-104-664-11	ELECT 47MF	20% 16V	D1014	8-719-914-43	DIODE DAN202K	
C1399	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1015	8-719-914-43	DIODE DAN202K	
C1402	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	D1018	8-719-914-44	DIODE DAP202K	
C1403	1-126-964-11	ELECT 10MF	20% 50V	D1019	8-719-914-43	DIODE DAN202K	
C1407	1-107-701-11	ELECT 47MF	20% 16V	D1020	8-719-914-44	DIODE DAP202K	
C1408	1-126-933-11	ELECT 100MF	20% 16V	D1021	8-719-109-89	DIODE RD5.6ESB2	
C1409	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1022	8-719-109-89	DIODE RD5.6ESB2	
C1410	1-164-346-11	CERAMIC CHIP 1MF	16V	D1024	8-719-036-58	DIODE MA3030-H(TX)	
C1411	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	D1026	8-719-914-43	DIODE DAN202K	
C1412	1-165-321-11	CERAMIC CHIP 0.68MF	10% 16V	D1027	8-719-914-42	DIODE DA204K	
C1415	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C1416	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C1417	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C1420	1-164-346-11	CERAMIC CHIP 1MF	16V				
C1421	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C1422	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C1423	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C1424	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1427	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V				
C1428	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C1430	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1431	1-126-963-11	ELECT 4.7MF	20% 50V				
C1432	1-126-961-11	ELECT 2.2MF	20% 50V				
C1433	1-126-961-11	ELECT 2.2MF	20% 50V				
C1434	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>			
JR1006	1-216-295-00	SHORT	0
JR1007	1-216-295-00	SHORT	0
JR1010	1-216-295-00	SHORT	0
JR1011	1-216-295-00	SHORT	0
JR1016	1-216-295-00	SHORT	0
JR1017	1-216-295-00	SHORT	0
JR1020	1-216-295-00	SHORT	0
JR1026	1-216-295-00	SHORT	0
JR1031	1-216-295-00	SHORT	0
JR1118	1-216-295-00	SHORT	0
JR1121	1-216-295-00	SHORT	0
JR1122	1-216-295-00	SHORT	0
<COIL>			
L1003	1-410-397-21	FERRITE	1.1UH
L1004	1-412-757-11	INDUCTOR 68UH	
L1005	1-410-067-21	INDUCTOR 4.7mH	
L1006	1-412-757-11	INDUCTOR 68UH	
L1007	1-410-397-21	FERRITE	1.1UH
L1008	1-410-397-21	FERRITE	1.1UH
L1010	1-408-397-00	INDUCTOR 1UH	
L1011	1-412-757-11	INDUCTOR 68UH	
L1012	1-408-603-31	INDUCTOR 10UH	
L1013	1-410-426-11	INDUCTOR 39UH	
L1014	1-410-397-21	FERRITE	1.1UH
L1016	1-410-431-11	INDUCTOR 100UH	
L1017	1-408-397-00	INDUCTOR 1UH	
L1018	1-408-397-00	INDUCTOR 1UH	
L1019	1-412-751-11	INDUCTOR 18UH	
L1020	1-408-603-31	INDUCTOR 10UH	
L1021	1-410-423-11	INDUCTOR 22UH	
L1022	1-410-423-11	INDUCTOR 22UH	
L1023	1-410-423-11	INDUCTOR 22UH	
L1025	1-410-431-11	INDUCTOR 100UH	
L1026	1-410-397-21	FERRITE	1.1UH
L1027	1-412-757-11	INDUCTOR 68UH	
L1028	1-410-423-11	INDUCTOR 22UH	
L1029	1-412-751-11	INDUCTOR 18UH	
L1101	1-412-004-31	INDUCTOR CHIP 6.8UH	
L1102	1-412-757-11	INDUCTOR 68UH	
L1104	1-410-431-11	INDUCTOR 100UH	
<IC LINK>			
PS1001	△ 1-532-637-91	LINK, IC (1A/150V)	
PS1002	△ 1-532-984-91	LINK, IC (2A/90V)	
PS1003	△ 1-532-984-91	LINK, IC (2A/90V)	
<TRANSISTOR>			
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1003	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1004	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1005	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1007	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1008	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1011	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1012	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1013	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1014	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1015	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1016	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1017	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q1018	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1019	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1020	8-729-620-06	TRANSISTOR 2SC3052-EF	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1021	8-729-620-06	TRANSISTOR 2SC3052-EF		<RESISTOR>			
Q1022	8-729-216-22	TRANSISTOR 2SA1162-G		R1001	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1024	8-729-216-22	TRANSISTOR 2SA1162-G		R1002	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1025	8-729-216-22	TRANSISTOR 2SA1162-G		R1004	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1026	8-729-216-22	TRANSISTOR 2SA1162-G		R1005	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1027	8-729-216-22	TRANSISTOR 2SA1162-G		R1006	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1028	8-729-216-22	TRANSISTOR 2SA1162-G		R1007	1-216-033-00	RES,CHIP 220	5% 1/10W
Q1029	8-729-620-06	TRANSISTOR 2SC3052-EF		R1008	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1030	8-729-620-06	TRANSISTOR 2SC3052-EF		R1009	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1031	8-729-620-06	TRANSISTOR 2SC3052-EF		R1010	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1032	8-729-216-22	TRANSISTOR 2SA1162-G		R1011	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1033	8-729-216-22	TRANSISTOR 2SA1162-G		R1012	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1034	8-729-021-82	TRANSISTOR 2SD2396K		R1013	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1035	8-729-620-06	TRANSISTOR 2SC3052-EF		R1014	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1036	8-729-620-06	TRANSISTOR 2SC3052-EF		R1015	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1037	8-729-620-06	TRANSISTOR 2SC3052-EF		R1016	1-216-295-91	SHORT 0	
Q1038	8-729-620-06	TRANSISTOR 2SC3052-EF		R1017	1-216-198-91	RES,CHIP 1K	5% 1/8W
Q1039	8-729-620-06	TRANSISTOR 2SC3052-EF		R1018	1-216-198-91	RES,CHIP 1K	5% 1/8W
Q1040	8-729-216-22	TRANSISTOR 2SA1162-G		R1019	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1042	8-729-216-22	TRANSISTOR 2SA1162-G		R1020	1-216-198-91	RES,CHIP 1K	5% 1/8W
Q1043	8-729-216-22	TRANSISTOR 2SA1162-G		R1021	1-216-295-00	SHORT 0	
Q1044	8-729-216-22	TRANSISTOR 2SA1162-G		R1022	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1045	8-729-216-22	TRANSISTOR 2SA1162-G		R1023	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1047	8-729-620-06	TRANSISTOR 2SC3052-EF		R1024	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1048	8-729-620-06	TRANSISTOR 2SC3052-EF		R1025	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1049	8-729-216-22	TRANSISTOR 2SA1162-G		R1026	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1050	8-729-402-84	TRANSISTOR XN4601		R1027	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1051	8-729-402-84	TRANSISTOR XN4601		R1028	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1052	8-729-900-53	TRANSISTOR DTC114EK		R1029	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1053	8-729-620-06	TRANSISTOR 2SC3052-EF		R1030	1-216-041-00	RES,CHIP 470	5% 1/10W
Q1059	8-729-027-31	TRANSISTOR DTA124EKA-T146		R1034	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1060	8-729-901-00	TRANSISTOR DTC124EK		R1035	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1061	8-729-901-00	TRANSISTOR DTC124EK		R1036	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1062	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1037	1-216-295-00	SHORT 0	
Q1064	8-729-901-00	TRANSISTOR DTC124EK		R1039	1-216-083-00	RES,CHIP 27K	5% 1/10W
Q1065	8-729-620-06	TRANSISTOR 2SC3052-EF		R1040	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1066	8-729-216-22	TRANSISTOR 2SA1162-G		R1041	1-216-077-00	RES,CHIP 15K	5% 1/10W
Q1067	8-729-216-22	TRANSISTOR 2SA1162-G		R1042	1-216-689-11	RES,CHIP 39K	5% 1/10W
Q1068	8-729-216-22	TRANSISTOR 2SA1162-G		R1043	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q1069	8-729-900-53	TRANSISTOR DTC114EK		R1044	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
Q1070	8-729-901-00	TRANSISTOR DTC124EK		R1045	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q1071	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1046	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1072	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1048	1-249-417-11	CARBON 1K	5% 1/4W F
Q1076	8-729-216-22	TRANSISTOR 2SA1162-G		R1051	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1077	8-729-216-22	TRANSISTOR 2SA1162-G		R1052	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
Q1078	8-729-620-06	TRANSISTOR 2SC3052-EF		R1053	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1079	8-729-620-06	TRANSISTOR 2SC3052-EF		R1054	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1105	8-729-620-06	TRANSISTOR 2SC3052-EF		R1055	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1106	8-729-620-06	TRANSISTOR 2SC3052-EF		R1056	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q1107	8-729-620-06	TRANSISTOR 2SC3052-EF		R1057	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1108	8-729-620-06	TRANSISTOR 2SC3052-EF		R1058	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q1109	8-729-620-06	TRANSISTOR 2SC3052-EF		R1059	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1110	8-729-620-06	TRANSISTOR 2SC3052-EF		R1060	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1112	8-729-620-06	TRANSISTOR 2SC3052-EF		R1061	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1114	8-729-620-06	TRANSISTOR 2SC3052-EF		R1062	1-216-295-00	SHORT 0	
Q1115	8-729-216-22	TRANSISTOR 2SA1162-G		R1063	1-216-083-00	RES,CHIP 27K	5% 1/10W
Q1116	8-729-216-22	TRANSISTOR 2SA1162-G		R1064	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1117	8-729-620-06	TRANSISTOR 2SC3052-EF		R1066	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1118	8-729-620-06	TRANSISTOR 2SC3052-EF		R1067	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1119	8-729-216-22	TRANSISTOR 2SA1162-G		R1068	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1120	8-729-620-06	TRANSISTOR 2SC3052-EF		R1070	1-216-043-91	RES,CHIP 560	5% 1/10W
Q1121	8-729-900-53	TRANSISTOR DTC114EK		R1071	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1122	8-729-620-06	TRANSISTOR 2SC3052-EF		R1072	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1123	8-729-039-67	TRANSISTOR BSS83		R1073	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1124	8-729-216-22	TRANSISTOR 2SA1162-G		R1074	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1125	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1075	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1126	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1076	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1127	8-729-620-06	TRANSISTOR 2SC3052-EF		R1077	1-216-113-00	RES,CHIP 470K	5% 1/10W
Q1128	8-729-620-06	TRANSISTOR 2SC3052-EF					

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1078	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1160	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1079	1-218-755-11	METAL CHIP	130K	0.50%	1/10W	R1161	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1080	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1162	1-216-295-00	SHORT	0		
R1081	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1163	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1082	1-216-107-00	RES,CHIP	270K	5%	1/10W	R1164	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1084	1-216-639-11	METAL CHIP	330	0.50%	1/10W	R1165	1-216-295-00	SHORT	0		
R1086	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	R1166	1-216-043-91	RES,CHIP	560	5%	1/10W
R1089	1-216-043-91	RES,CHIP	560	5%	1/10W	R1167	1-216-295-00	SHORT	0		
R1092	1-216-646-11	METAL CHIP	620	0.50%	1/10W	R1169	1-216-043-91	RES,CHIP	560	5%	1/10W
R1094	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1170	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1095	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1171	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1096	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1172	1-216-295-00	SHORT	0		
R1097	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1173	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1098	1-216-025-00	RES,CHIP	100	5%	1/10W	R1174	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1099	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1175	1-216-025-00	RES,CHIP	100	5%	1/10W
R1100	1-216-037-00	RES,CHIP	330	5%	1/10W	R1176	1-216-049-00	RES,CHIP	1K	5%	1/10W
R1101	1-216-025-00	RES,CHIP	100	5%	1/10W	R1177	1-216-001-00	RES,CHIP	10	5%	1/10W
R1102	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1178	1-216-023-00	RES,CHIP	82	5%	1/10W
R1103	1-216-134-00	RES,CHIP	2.2	5%	1/8W	R1179	1-216-025-00	RES,CHIP	100	5%	1/10W
R1104	1-216-085-00	RES,CHIP	33K	5%	1/10W	R1180	1-216-049-00	RES,CHIP	1K	5%	1/10W
R1105	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	R1181	1-249-407-11	CARBON	150	5%	1/4W
R1106	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1182	1-216-041-00	RES,CHIP	470	5%	1/10W
R1107	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1183	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1108	1-208-845-11	RES,CHIP	1M	5%	1/10W	R1184	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1109	1-208-845-11	RES,CHIP	1M	5%	1/10W	R1185	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1110	1-216-150-91	RES,CHIP	10	5%	1/8W	R1186	1-216-615-11	METAL CHIP	33	0.50%	1/10W
R1111	1-216-025-00	RES,CHIP	100	5%	1/10W	R1187	1-216-615-11	METAL CHIP	33	0.50%	1/10W
R1112	1-216-025-00	RES,CHIP	100	5%	1/10W	R1188	1-249-389-11	CARBON	4.7	5%	1/4W F
R1113	1-216-117-00	RES,CHIP	680K	5%	1/10W	R1189	1-249-389-11	CARBON	4.7	5%	1/4W F
R1115	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1190	1-249-421-11	CARBON	2.2K	5%	1/4W
R1116	1-216-089-00	RES,CHIP	47K	5%	1/10W	R1191	1-249-421-11	CARBON	2.2K	5%	1/4W
R1117	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1192	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1118	1-216-134-00	RES,CHIP	2.2	5%	1/8W	R1193	1-216-049-00	RES,CHIP	1K	5%	1/10W
R1121	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1194	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1122	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1196	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1123	1-216-103-00	RES,CHIP	180K	5%	1/10W	R1197	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1124	1-216-089-00	RES,CHIP	47K	5%	1/10W	R1198	1-216-089-00	RES,CHIP	47K	5%	1/10W
R1125	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1199	1-216-089-00	RES,CHIP	47K	5%	1/10W
R1126	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1200	1-249-385-11	CARBON	2.2	5%	1/4W F
R1127	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1201	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1128	1-216-103-00	RES,CHIP	180K	5%	1/10W	R1203	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1129	1-216-119-00	RES,CHIP	820K	5%	1/10W	R1205	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1130	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1206	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1131	1-216-037-00	RES,CHIP	330	5%	1/10W	R1207	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1132	1-216-097-00	RES,CHIP	100K	5%	1/10W	R1208	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1133	1-216-089-00	RES,CHIP	47K	5%	1/10W	R1209	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1134	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1210	1-216-049-00	RES,CHIP	1K	5%	1/10W
R1135	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1211	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R1138	1-216-043-91	RES,CHIP	560	5%	1/10W	R1212	1-216-025-00	RES,CHIP	100	5%	1/10W
R1139	1-216-037-00	RES,CHIP	330	5%	1/10W	R1213	1-216-025-00	RES,CHIP	100	5%	1/10W
R1140	1-216-037-00	RES,CHIP	330	5%	1/10W	R1214	1-216-025-00	RES,CHIP	100	5%	1/10W
R1141	1-216-025-00	RES,CHIP	100	5%	1/10W	R1218	1-249-389-11	CARBON	4.7	5%	1/4W F
R1144	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1219	1-249-389-11	CARBON	4.7	5%	1/4W F
R1145	1-216-001-00	RES,CHIP	10	5%	1/10W	R1221	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1146	1-216-045-00	RES,CHIP	680	5%	1/10W	R1222	1-249-389-11	CARBON	4.7	5%	1/4W F
R1147	1-216-039-00	RES,CHIP	390	5%	1/10W	R1223	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1148	1-216-045-00	RES,CHIP	680	5%	1/10W	R1224	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1149	1-216-001-00	RES,CHIP	10	5%	1/10W	R1225	1-249-385-11	CARBON	2.2	5%	1/4W F
R1150	1-216-039-00	RES,CHIP	390	5%	1/10W	R1226	1-216-613-11	METAL CHIP	27	0.50%	1/10W
R1151	1-216-049-00	RES,CHIP	1K	5%	1/10W	R1227	1-216-613-11	METAL CHIP	27	0.50%	1/10W
R1152	1-216-041-00	RES,CHIP	470	5%	1/10W	R1228	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1153	1-216-041-00	RES,CHIP	470	5%	1/10W	R1229	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1154	1-216-041-00	RES,CHIP	470	5%	1/10W	R1230	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1155	1-216-295-00	SHORT	0			R1231	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1156	1-216-295-00	SHORT	0			R1232	1-249-421-11	CARBON	2.2K	5%	1/4W
R1157	1-216-295-00	SHORT	0			R1233	1-249-421-11	CARBON	2.2K	5%	1/4W
R1158	1-249-419-11	CARBON	1.5K	5%	1/4W	R1234	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R1159	1-247-807-31	CARBON	100	5%	1/4W	R1235	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
						R1236	1-216-061-00	RES,CHIP	3.3K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION		REMARK
R1237	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R1238	1-216-673-11	METAL CHIP	8.2K	0.50% 1/10W
R1239	1-216-691-11	METAL CHIP	47K	0.50% 1/10W
R1240	1-216-691-11	METAL CHIP	47K	0.50% 1/10W
R1241	1-216-107-00	RES,CHIP	270K	5% 1/10W
R1242	1-216-693-11	METAL CHIP	56K	0.50% 1/10W
R1243	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R1244	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1245	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1246	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1247	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1248	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1249	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1250	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1251	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1252	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1253	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1254	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1255	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1256	1-216-025-00	RES,CHIP	100	5% 1/10W
R1257	1-216-025-00	RES,CHIP	100	5% 1/10W
R1258	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1259	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1260	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1261	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1262	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1263	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1264	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1265	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1266	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1267	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1268	1-216-295-00	SHORT	0	
R1269	1-216-295-00	SHORT	0	
R1270	1-216-295-00	SHORT	0	
R1271	1-216-295-00	SHORT	0	
R1272	1-216-693-11	METAL CHIP	56K	0.50% 1/10W
R1273	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R1274	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1275	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1276	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1277	1-216-085-00	RES,CHIP	33K	5% 1/10W
R1278	1-216-085-00	RES,CHIP	33K	5% 1/10W
R1279	1-260-107-11	CARBON	4.7K	5% 1/2W
R1280	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1281	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1282	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1283	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1284	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1285	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1286	1-249-394-11	CARBON	12	5% 1/4W
R1287	1-216-025-00	RES,CHIP	100	5% 1/10W
R1290	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1291	1-216-222-00	RES,CHIP	10K	5% 1/8W
R1292	1-216-025-00	RES,CHIP	100	5% 1/10W
R1293	1-216-025-00	RES,CHIP	100	5% 1/10W
R1294	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1298	1-216-031-00	RES,CHIP	180	5% 1/10W
R1299	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R1300	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R1301	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R1302	1-216-031-00	RES,CHIP	180	5% 1/10W
R1303	1-216-031-00	RES,CHIP	180	5% 1/10W
R1304	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R1305	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R1306	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R1307	1-216-680-11	METAL CHIP	16K	0.50% 1/10W
R1308	1-216-680-11	METAL CHIP	16K	0.50% 1/10W
R1309	1-216-680-11	METAL CHIP	16K	0.50% 1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R1310	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1311	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1312	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1313	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1314	1-216-025-00	RES,CHIP	100	5% 1/10W
R1315	1-216-025-00	RES,CHIP	100	5% 1/10W
R1316	1-216-025-00	RES,CHIP	100	5% 1/10W
R1317	1-216-025-00	RES,CHIP	100	5% 1/10W
R1318	1-216-025-00	RES,CHIP	100	5% 1/10W
R1319	1-216-025-00	RES,CHIP	100	5% 1/10W
R1320	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1321	1-216-033-00	RES,CHIP	220	5% 1/10W
R1322	1-216-033-00	RES,CHIP	220	5% 1/10W
R1323	1-216-025-00	RES,CHIP	100	5% 1/10W
R1324	1-216-025-00	RES,CHIP	100	5% 1/10W
R1325	1-216-133-00	RES,CHIP	3.3M	5% 1/10W
R1328	1-216-295-00	SHORT	0	
R1329	1-216-295-00	SHORT	0	
R1330	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1331	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1332	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1333	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1334	1-216-079-00	RES,CHIP	18K	5% 1/10W
R1335	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1337	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1338	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1339	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1340	1-216-041-00	RES,CHIP	470	5% 1/10W
R1341	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1342	1-216-089-00	RES,CHIP	47K	5% 1/10W
R1343	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1345	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1346	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1347	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1348	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1349	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1350	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1351	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1352	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1353	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1354	1-216-025-00	RES,CHIP	100	5% 1/10W
R1355	1-216-083-00	RES,CHIP	27K	5% 1/10W
R1356	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1358	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1359	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1360	1-216-065-00	RES,CHIP	4.7K	5% 1/10W
R1361	1-216-025-00	RES,CHIP	100	5% 1/10W
R1362	1-216-025-00	RES,CHIP	100	5% 1/10W
R1363	1-216-035-00	RES,CHIP	270	5% 1/10W
R1364	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1365	1-216-295-00	SHORT	0	
R1366	1-216-025-00	RES,CHIP	100	5% 1/10W
R1367	1-216-295-00	SHORT	0	
R1368	1-216-295-00	SHORT	0	
R1369	1-216-295-00	SHORT	0	
R1371	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1372	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1373	1-216-049-00	RES,CHIP	1K	5% 1/10W
R1374	1-216-043-91	RES,CHIP	560	5% 1/10W
R1375	1-216-043-91	RES,CHIP	560	5% 1/10W
R1376	1-216-037-00	RES,CHIP	330	5% 1/10W
R1377	1-216-025-00	RES,CHIP	100	5% 1/10W
R1378	1-216-025-00	RES,CHIP	100	5% 1/10W
R1379	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1380	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1381	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1382	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1383	1-216-017-00	RES,CHIP	47	5% 1/10W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1384	1-216-017-00	RES,CHIP	47 5% 1/10W	R1495	1-216-295-00	SHORT	0
R1385	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1498	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1386	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1499	1-216-041-00	RES,CHIP	470 5% 1/10W
R1387	1-216-037-00	RES,CHIP	330 5% 1/10W	R1503	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1388	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1504	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1389	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1505	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1401	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1506	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1402	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1507	1-216-033-00	RES,CHIP	220 5% 1/10W
R1403	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1508	1-216-295-00	SHORT	0
R1404	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1509	1-216-295-00	SHORT	0
R1405	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1512	1-216-047-91	RES,CHIP	820 5% 1/10W
R1406	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1513	1-216-295-00	SHORT	0
R1408	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1514	1-216-295-00	SHORT	0
R1409	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1515	1-216-295-00	SHORT	0
R1410	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1516	1-216-033-00	RES,CHIP	220 5% 1/10W
R1412	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1517	1-216-295-00	SHORT	0
R1413	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1518	1-216-295-00	SHORT	0
R1414	1-216-033-00	RES,CHIP	220 5% 1/10W	R1519	1-249-394-11	CARBON	12 5% 1/4W F
R1415	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1520	1-216-025-00	RES,CHIP	100 5% 1/10W
R1416	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1521	1-216-033-00	RES,CHIP	220 5% 1/10W
R1417	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1522	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1418	1-216-295-00	SHORT	0	R1523	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1419	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1524	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1420	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1525	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1421	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1526	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1422	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1527	1-216-025-00	RES,CHIP	100 5% 1/10W
R1423	1-216-091-00	RES,CHIP	56K 5% 1/10W	R1528	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1424	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1529	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1425	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1531	1-216-295-00	SHORT	0
R1426	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1532	1-216-295-00	SHORT	0
R1427	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1533	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1429	1-216-041-00	RES,CHIP	470 5% 1/10W	R1534	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1430	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1535	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1431	1-216-025-00	RES,CHIP	100 5% 1/10W	R1536	1-216-643-11	METAL CHIP	470 0.50% 1/10W
R1432	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1537	1-216-643-11	METAL CHIP	470 0.50% 1/10W
R1433	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1538	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1434	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R1539	1-216-643-11	METAL CHIP	470 0.50% 1/10W
R1435	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1540	1-216-025-00	RES,CHIP	100 5% 1/10W
R1436	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1541	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R1438	1-216-295-00	SHORT	0	R1542	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1440	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1543	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1443	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1545	1-216-079-00	RES,CHIP	18K 5% 1/10W
R1444	1-216-041-00	RES,CHIP	470 5% 1/10W	R1546	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R1445	1-216-041-00	RES,CHIP	470 5% 1/10W	R1547	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1446	1-216-025-00	RES,CHIP	100 5% 1/10W	R1548	1-216-083-00	RES,CHIP	27K 5% 1/10W
R1447	1-216-295-00	SHORT	0	R1549	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1448	1-216-049-00	RES,CHIP	1K 5% 1/10W	<TEST PIN>			
R1449	1-216-049-00	RES,CHIP	1K 5% 1/10W	TP1004	* 1-537-864-11	PIN, POST	
R1450	1-216-037-00	RES,CHIP	330 5% 1/10W	TP1005	* 1-537-864-11	PIN, POST	
R1451	1-216-093-00	RES,CHIP	68K 5% 1/10W	TP1006	* 1-537-864-11	PIN, POST	
R1453	1-216-025-00	RES,CHIP	100 5% 1/10W	<TUNER>			
R1454	1-216-041-00	RES,CHIP	470 5% 1/10W	TU1001 Δ 1-693-340-23	TUNER/VIF		
R1456	1-216-049-00	RES,CHIP	1K 5% 1/10W	TU1002 Δ 1-693-340-23	TUNER/VIF		
R1458	1-216-295-00	SHORT	0	<CRYSTAL>			
R1461	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	X1001	1-577-082-11	VIBRATOR, CERAMIC	
R1463	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	X1002	1-760-551-21	VIBRATOR, CERAMIC	
R1464	1-216-017-00	RES,CHIP	47 5% 1/10W	X1101	1-579-689-21	VIBRATOR, CRYSTAL	
R1465	1-216-647-11	METAL CHIP	680 0.50% 1/10W	*****			
R1466	1-216-043-91	RES,CHIP	560 5% 1/10W				
R1467	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R1468	1-216-069-00	RES,CHIP	6.8K 5% 1/10W				
R1469	1-216-643-11	METAL CHIP	470 0.50% 1/10W				
R1470	1-216-049-00	RES,CHIP	1K 5% 1/10W				
R1484	1-216-295-00	SHORT	0				
R1487	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R1488	1-216-069-00	RES,CHIP	6.8K 5% 1/10W				
R1489	1-216-627-11	METAL CHIP	100 0.50% 1/10W				
R1491	1-249-411-11	CARBON	330 5% 1/4W				
R1494	1-216-295-00	SHORT	0				



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1311-494-A G BOARD, COMPLETE *****			
4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C601	1-125-483-11	ELECT (BLOCK)470MF	20% 400V
C602	1-164-625-11	CERAMIC 680PF	10% 500V
C603	1-164-625-11	CERAMIC 680PF	10% 500V
C604	1-137-194-81	FILM 0.47MF	5% 50V
C605	1-136-171-00	FILM 0.33MF	5% 50V
C606	1-164-645-11	CERAMIC 1000PF	10% 500V
C607	1-137-194-81	FILM 0.47MF	5% 50V
C608	1-136-171-00	FILM 0.33MF	5% 50V
C609	1-129-718-00	FILM 0.022MF	5% 630V
C610	1-126-953-11	ELECT 2200MF	20% 35V
C611	1-126-964-11	ELECT 10MF	20% 50V
C612	1-126-942-61	ELECT 1000MF	20% 25V
C613	1-126-964-11	ELECT 10MF	20% 50V
C614	1-104-664-11	ELECT 47MF	20% 25V
C615	1-102-129-00	CERAMIC 0.01MF	10% 50V
C616	1-102-129-00	CERAMIC 0.01MF	10% 50V
C617	1-102-050-00	CERAMIC 0.01MF	500V
C618	1-126-937-11	ELECT 4700MF	20% 16V
C619	1-126-937-11	ELECT 4700MF	20% 16V
C620	1-104-664-11	ELECT 47MF	20% 25V
C621	1-102-129-00	CERAMIC 0.01MF	10% 50V
C622	1-104-664-11	ELECT 47MF	20% 25V
C623	1-102-129-00	CERAMIC 0.01MF	10% 50V
C624	1-126-960-11	ELECT 1MF	20% 50V
C627	1-136-157-00	FILM 0.022MF	5% 50V
C628	1-136-161-00	FILM 0.047MF	5% 50V
C629	1-126-967-11	ELECT 47MF	20% 50V
C630	1-102-050-00	CERAMIC 0.01MF	500V
<CONNECTOR>			
CN6001	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6002	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6003	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN6004	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN6005	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN6006	* 1-564-510-11	PLUG, CONNECTOR 7P	
<DIODE>			
D601	8-719-911-19	DIODE 1SS119-25	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-052-92	DIODE D10SBS4F	
D604	8-719-312-47	DIODE RBA-406B	
D605	8-719-052-92	DIODE D10SBS4F	
D606	8-719-110-41	DIODE RD15ESB2	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D610	8-719-911-19	DIODE 1SS119-25	
D611	8-719-911-19	DIODE 1SS119-25	
D612	Δ 8-719-510-63	DIODE D4SB60L-F	
<FERRITE BEAD>			
FB601	1-410-396-41	FERRITE 0.45UH	
FB602	1-410-396-41	FERRITE 0.45UH	
<IC>			
IC601	8-759-908-15	IC TL431CLP	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>			
L602	1-412-519-11	INDUCTOR 3.3UH	
L603	1-408-603-31	INDUCTOR 10UH	
L604	1-412-519-11	INDUCTOR 3.3UH	
L605	1-403-588-11	INDUCTOR 22UH	
L606	1-412-519-11	INDUCTOR 3.3UH	
<TRANSISTOR>			
Q601	8-729-016-15	TRANSISTOR 2SC4833MNP	
Q602	8-729-016-15	TRANSISTOR 2SC4833MNP	
Q603	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
<RESISTOR>			
R601	1-260-129-11	CARBON 330K	5% 1/2W
R602	1-260-129-11	CARBON 330K	5% 1/2W
R603	1-215-471-00	METAL 120K	1% 1/4W
R604	1-215-471-00	METAL 120K	1% 1/4W
R605	1-249-387-11	CARBON 3.3	5% 1/4W
R606	1-249-393-11	CARBON 10	5% 1/4W
R607	1-215-471-00	METAL 120K	1% 1/4W
R608	1-215-471-00	METAL 120K	1% 1/4W
R609	1-249-387-11	CARBON 3.3	5% 1/4W
R610	1-249-393-11	CARBON 10	5% 1/4W
R611	1-216-370-11	METAL OXIDE 1.2	5% 2W F
R617	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
R618	1-215-447-00	METAL 12K	1% 1/4W
R619	1-249-435-11	CARBON 33K	5% 1/4W
R621	1-215-432-00	METAL 3K	1% 1/4W
R622	1-249-417-11	CARBON 1K	5% 1/4W
R623	1-247-807-31	CARBON 100	5% 1/4W
R624	1-249-425-11	CARBON 4.7K	5% 1/4W
R625	1-249-418-11	CARBON 1.2K	5% 1/4W
<TRANSFORMER>			
T601	Δ 1-429-839-11	TRANSFORMER, CONVERTER (PIT)	
T602	Δ 1-427-864-13	TRANSFORMER, CONVERTER (PRT)	

* A-1335-072-A C BOARD, COMPLETE *****			
<CAPACITOR>			
C5001	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5002	1-104-664-11	ELECT 47MF	20% 10V
C5003	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C5004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5005	1-126-962-11	ELECT 3.3MF	20% 50V
C5006	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C5007	1-163-104-00	CERAMIC CHIP 30PF	5% 50V
C5008	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C5009	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5016	1-163-108-00	CERAMIC CHIP 43PF	5% 50V
C5017	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C5018	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5019	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C5020	1-126-962-11	ELECT 3.3MF	20% 50V
C5021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5022	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C5023	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5024	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5025	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5026	1-104-664-11	ELECT 47MF	20% 10V
C5027	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C5028	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C5402	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5029	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5409	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5030	1-104-664-11	ELECT	47MF	20%	25V	C5411	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5039	1-104-664-11	ELECT	47MF	20%	25V	C5412	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5413	1-104-664-11	ELECT	47MF	20%	25V
C5040	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C5041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5414	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5415	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5416	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5417	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5418	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5045	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C5046	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5419	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5420	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5048	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5421	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5049	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5422	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5423	1-104-664-11	ELECT	47MF	20%	10V
C5050	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C5051	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5424	1-104-664-11	ELECT	47MF	20%	10V
C5054	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5425	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5055	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5426	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5056	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5427	1-104-664-11	ELECT	47MF	20%	25V
						C5428	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5057	1-163-259-91	CERAMIC CHIP	220PF	5%	50V						
C5058	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5429	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5059	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C5430	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5073	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C5431	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5201	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5432	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5433	1-126-964-11	ELECT	10MF	20%	50V
C5202	1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5203	1-104-664-11	ELECT	47MF	20%	25V	C5434	1-104-664-11	ELECT	47MF	20%	25V
C5204	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5435	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5205	1-104-664-11	ELECT	47MF	20%	10V	C5436	1-104-664-11	ELECT	47MF	20%	16V
C5206	1-104-664-11	ELECT	47MF	20%	16V	C5437	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5440	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5207	1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5209	1-104-664-11	ELECT	47MF	20%	25V	C5441	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5210	1-104-664-11	ELECT	47MF	20%	25V	C5442	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5212	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5601	1-104-664-11	ELECT	47MF	20%	16V
C5213	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5602	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5605	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5214	1-104-664-11	ELECT	47MF	20%	25V						
C5215	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5608	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5216	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5609	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5217	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5610	1-104-664-11	ELECT	47MF	20%	25V
C5218	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5611	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5612	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5219	1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5220	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5613	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5221	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5614	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5222	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5615	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5223	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5616	1-165-319-11	CERAMIC CHIP	0.1MF		50V
						C5617	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5224	1-104-664-11	ELECT	47MF	20%	10V						
C5225	1-104-664-11	ELECT	47MF	20%	10V	C5618	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5226	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5619	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5227	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5620	1-104-664-11	ELECT	47MF	20%	10V
C5228	1-104-664-11	ELECT	47MF	20%	25V	C5621	1-104-664-11	ELECT	47MF	20%	10V
						C5622	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5229	1-107-689-21	TANTAL. CHIP	1MF	20%	35V						
C5230	1-107-689-21	TANTAL. CHIP	1MF	20%	35V	C5623	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5231	1-107-689-21	TANTAL. CHIP	1MF	20%	35V	C5624	1-104-664-11	ELECT	47MF	20%	25V
C5232	1-107-689-21	TANTAL. CHIP	1MF	20%	35V	C5625	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5233	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5626	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
						C5627	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5234	1-126-964-11	ELECT	10MF	20%	50V						
C5235	1-104-664-11	ELECT	47MF	20%	25V	C5628	1-107-689-21	TANTAL. CHIP	1MF	20%	35V
C5236	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5629	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5237	1-104-664-11	ELECT	47MF	20%	16V	C5630	1-126-964-11	ELECT	10MF	20%	50V
C5238	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5631	1-104-664-11	ELECT	47MF	20%	25V
						C5632	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5241	1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5242	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5633	1-104-664-11	ELECT	47MF	20%	16V
C5243	1-104-664-11	ELECT	47MF	20%	16V	C5634	1-104-664-11	ELECT	47MF	20%	16V
C5244	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C5635	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5245	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5636	1-104-664-11	ELECT	47MF	20%	16V
						C5637	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5246	1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5247	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5640	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5248	1-104-664-11	ELECT	47MF	20%	16V	C5641	1-104-664-11	ELECT	47MF	20%	16V
C5251	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5642	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5401	1-104-664-11	ELECT	47MF	20%	16V	C5643	1-165-319-11	CERAMIC CHIP	0.1MF		50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C5644	1-165-319-11	CERAMIC CHIP 0.1MF	50V	FL5011	1-233-539-21	FILTER, EMI	
		<CONNECTOR>		FL5012	1-233-513-21	FILTER, EMI	
CN5001	1-691-093-11	CONNECTOR, FFC (ZIF) 20P		FL5013	1-233-513-21	FILTER, EMI	
CN5002	1-691-093-11	CONNECTOR, FFC (ZIF) 20P		FL5014	1-233-513-21	FILTER, EMI	
CN5003	1-691-093-11	CONNECTOR, FFC (ZIF) 20P		FL5015	1-233-513-21	FILTER, EMI	
CN5201	* 1-564-524-11	PLUG, CONNECTOR 9P		FL5016	1-233-539-21	FILTER, EMI	
CN5202	* 1-564-525-11	PLUG, CONNECTOR 10P		FL5017	1-233-539-21	FILTER, EMI	
		<DIODE>				<IC>	
D5001	8-719-002-81	DIODE 1T363		IC5002	8-759-103-09	IC uPC4082G2	
D5003	8-719-002-81	DIODE 1T363		IC5003	8-759-103-09	IC uPC4082G2	
D5034	8-719-158-07	DIODE RD4.7SB		IC5004	8-752-375-83	IC CXD2412AQ	
D5035	8-719-158-07	DIODE RD4.7SB		IC5005	4-382-854-01	SCREW (M3X8), P, SW (+)	
D5040	8-719-404-49	DIODE MA111		IC5005	8-759-324-92	IC PQ15RF16	
D5041	8-719-404-49	DIODE MA111		IC5006	8-759-098-24	IC PQ30RV11	
D5043	8-719-420-51	DIODE MA729		IC5007	4-382-854-01	SCREW (M3X8), P, SW (+)	
D5044	8-719-404-49	DIODE MA111		IC5007	8-759-701-56	IC NJM78M05FA	
D5045	8-719-404-49	DIODE MA111		IC5201	8-752-071-58	IC CXA1819Q	
D5046	8-719-404-49	DIODE MA111		IC5401	8-752-071-58	IC CXA1819Q	
D5047	8-719-404-49	DIODE MA111		IC5601	8-752-071-58	IC CXA1819Q	
D5049	8-719-404-49	DIODE MA111		IC5602	8-752-058-68	IC CXA1315M	
D5201	8-719-404-49	DIODE MA111				<COIL>	
D5202	8-719-801-78	DIODE 1SS184		L5001	1-410-466-41	INDUCTOR 4.7UH	
D5214	8-719-404-49	DIODE MA111		L5002	1-427-791-21	TRANSFORMER, DETECTOR	
D5402	8-719-801-78	DIODE 1SS184		L5004	1-427-792-21	TRANSFORMER, DETECTOR	
D5414	8-719-404-49	DIODE MA111		L5005	1-410-470-11	INDUCTOR 10UH	
D5601	8-719-404-49	DIODE MA111		L5202	1-410-470-11	INDUCTOR 10UH	
D5602	8-719-801-78	DIODE 1SS184		L5601	1-410-470-11	INDUCTOR 10UH	
D5614	8-719-404-49	DIODE MA111		L5602	1-410-470-11	INDUCTOR 10UH	
		<FERRITE BEAD>				<TRANSISTOR>	
FB5001	1-543-813-21	FERRITE 0UH		Q5001	8-729-920-21	TRANSISTOR DTC314TK-T-146	
FB5002	1-543-813-21	FERRITE 0UH		Q5203	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5003	1-543-813-21	FERRITE 0UH		Q5204	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5004	1-543-813-21	FERRITE 0UH		Q5205	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5005	1-543-813-21	FERRITE 0UH		Q5206	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5010	1-543-813-21	FERRITE 0UH		Q5207	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5011	1-543-813-21	FERRITE 0UH		Q5209	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5012	1-543-813-21	FERRITE 0UH		Q5210	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5013	1-412-364-11	FERRITE 0UH		Q5214	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5014	1-412-364-11	FERRITE 0UH		Q5215	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5015	1-412-364-11	FERRITE 0UH		Q5216	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5016	1-412-364-11	FERRITE 0UH		Q5217	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5017	1-412-364-11	FERRITE 0UH		Q5218	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5018	1-412-364-11	FERRITE 0UH		Q5219	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5019	1-412-364-11	FERRITE 0UH		Q5220	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5025	1-543-813-21	FERRITE 0UH		Q5221	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5026	1-543-813-21	FERRITE 0UH		Q5222	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5201	1-412-364-11	FERRITE 0UH		Q5223	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5401	1-412-364-11	FERRITE 0UH		Q5224	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB5601	1-412-364-11	FERRITE 0UH		Q5225	8-729-216-22	TRANSISTOR 2SA1162-G	
FB5602	1-412-364-11	FERRITE 0UH		Q5226	8-729-216-22	TRANSISTOR 2SA1162-G	
		<FILTER>		Q5227	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5001	1-233-539-21	FILTER, EMI		Q5228	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5002	1-233-539-21	FILTER, EMI		Q5229	8-729-216-22	TRANSISTOR 2SA1162-G	
FL5003	1-239-400-11	FILTER, CHIP EMI		Q5234	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5004	1-239-400-11	FILTER, CHIP EMI		Q5235	8-729-216-22	TRANSISTOR 2SA1162-G	
FL5005	1-239-400-11	FILTER, CHIP EMI		Q5237	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5006	1-239-400-11	FILTER, CHIP EMI		Q5238	8-729-216-22	TRANSISTOR 2SA1162-G	
FL5007	1-239-400-11	FILTER, CHIP EMI		Q5403	8-729-216-22	TRANSISTOR 2SA1162-G	
FL5008	1-239-400-11	FILTER, CHIP EMI		Q5404	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5009	1-239-400-11	FILTER, CHIP EMI		Q5405	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL5010	1-239-400-11	FILTER, CHIP EMI		Q5406	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q5407	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q5409	8-729-620-06	TRANSISTOR 2SC3052-EF	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q5415	8-729-216-22	TRANSISTOR 2SA1162-G		R5051	1-216-075-00	RES,CHIP 12K	5% 1/10W
Q5416	8-729-620-06	TRANSISTOR 2SC3052-EF		R5052	1-208-845-11	RES,CHIP 1M	5% 1/10W
Q5417	8-729-620-06	TRANSISTOR 2SC3052-EF		R5053	1-208-845-11	RES,CHIP 1M	5% 1/10W
Q5418	8-729-216-22	TRANSISTOR 2SA1162-G		R5057	1-216-295-00	SHORT 0	
Q5419	8-729-216-22	TRANSISTOR 2SA1162-G		R5058	1-216-295-00	SHORT 0	
Q5420	8-729-620-06	TRANSISTOR 2SC3052-EF		R5059	1-216-295-00	SHORT 0	
Q5421	8-729-620-06	TRANSISTOR 2SC3052-EF		R5060	1-216-295-00	SHORT 0	
Q5422	8-729-216-22	TRANSISTOR 2SA1162-G		R5065	1-208-845-11	RES,CHIP 1M	5% 1/10W
Q5423	8-729-216-22	TRANSISTOR 2SA1162-G		R5066	1-208-845-11	RES,CHIP 1M	5% 1/10W
Q5424	8-729-620-06	TRANSISTOR 2SC3052-EF		R5071	1-216-033-00	RES,CHIP 220	5% 1/10W
Q5425	8-729-620-06	TRANSISTOR 2SC3052-EF		R5072	1-216-033-00	RES,CHIP 220	5% 1/10W
Q5426	8-729-216-22	TRANSISTOR 2SA1162-G		R5073	1-216-019-00	RES,CHIP 56	5% 1/10W
Q5427	8-729-216-22	TRANSISTOR 2SA1162-G		R5074	1-216-019-00	RES,CHIP 56	5% 1/10W
Q5428	8-729-620-06	TRANSISTOR 2SC3052-EF		R5087	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q5429	8-729-620-06	TRANSISTOR 2SC3052-EF		R5089	1-216-295-00	SHORT 0	
Q5430	8-729-216-22	TRANSISTOR 2SA1162-G		R5092	1-216-043-91	RES,CHIP 560	5% 1/10W
Q5433	8-729-216-22	TRANSISTOR 2SA1162-G		R5093	1-216-043-91	RES,CHIP 560	5% 1/10W
Q5435	8-729-620-06	TRANSISTOR 2SC3052-EF		R5094	1-216-043-91	RES,CHIP 560	5% 1/10W
Q5603	8-729-216-22	TRANSISTOR 2SA1162-G		R5095	1-216-043-91	RES,CHIP 560	5% 1/10W
Q5604	8-729-620-06	TRANSISTOR 2SC3052-EF		R5097	1-216-025-00	RES,CHIP 100	5% 1/10W
Q5605	8-729-620-06	TRANSISTOR 2SC3052-EF		R5098	1-216-085-00	RES,CHIP 33K	5% 1/10W
Q5606	8-729-216-22	TRANSISTOR 2SA1162-G		R5099	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q5607	8-729-216-22	TRANSISTOR 2SA1162-G		R5100	1-216-025-00	RES,CHIP 100	5% 1/10W
Q5609	8-729-620-06	TRANSISTOR 2SC3052-EF		R5101	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q5614	8-729-216-22	TRANSISTOR 2SA1162-G		R5103	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
Q5615	8-729-620-06	TRANSISTOR 2SC3052-EF		R5106	1-216-089-00	RES,CHIP 47K	5% 1/10W
Q5616	8-729-620-06	TRANSISTOR 2SC3052-EF		R5107	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q5617	8-729-216-22	TRANSISTOR 2SA1162-G		R5108	1-216-664-11	METAL CHIP 3.6K	0.50% 1/10W
Q5618	8-729-216-22	TRANSISTOR 2SA1162-G		R5109	1-216-631-11	METAL CHIP 150	0.50% 1/10W
Q5619	8-729-620-06	TRANSISTOR 2SC3052-EF		R5110	1-216-641-11	METAL CHIP 390	0.50% 1/10W
Q5620	8-729-620-06	TRANSISTOR 2SC3052-EF		R5120	1-216-295-00	SHORT 0	
Q5621	8-729-216-22	TRANSISTOR 2SA1162-G		R5121	1-216-295-00	SHORT 0	
Q5622	8-729-216-22	TRANSISTOR 2SA1162-G		R5123	1-216-295-00	SHORT 0	
Q5623	8-729-620-06	TRANSISTOR 2SC3052-EF		R5124	1-216-027-00	RES,CHIP 120	5% 1/10W
Q5624	8-729-620-06	TRANSISTOR 2SC3052-EF		R5125	1-216-027-00	RES,CHIP 120	5% 1/10W
Q5625	8-729-216-22	TRANSISTOR 2SA1162-G		R5126	1-216-027-00	RES,CHIP 120	5% 1/10W
Q5626	8-729-216-22	TRANSISTOR 2SA1162-G		R5201	1-216-001-00	RES,CHIP 10	5% 1/10W
Q5627	8-729-620-06	TRANSISTOR 2SC3052-EF		R5202	1-216-398-11	METAL OXIDE 5.6	5% 3W F
Q5628	8-729-620-06	TRANSISTOR 2SC3052-EF		R5203	1-208-845-11	RES,CHIP 1M	5% 1/10W
Q5629	8-729-216-22	TRANSISTOR 2SA1162-G		R5205	1-216-295-00	SHORT 0	
Q5632	8-729-216-22	TRANSISTOR 2SA1162-G		R5206	1-216-039-00	RES,CHIP 390	5% 1/10W
Q5634	8-729-620-06	TRANSISTOR 2SC3052-EF		R5207	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
<RESISTOR>				R5208	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R5001	1-216-065-00	RES,CHIP 4.7K	5% 1/10W	R5209	1-216-049-00	RES,CHIP 1K	5% 1/10W
R5002	1-216-065-00	RES,CHIP 4.7K	5% 1/10W	R5210	1-216-077-00	RES,CHIP 15K	5% 1/10W
R5003	1-216-091-00	RES,CHIP 56K	5% 1/10W	R5211	1-216-063-91	RES,CHIP 3.9K	5% 1/10W
R5006	1-216-295-00	SHORT 0		R5212	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R5007	1-216-025-00	RES,CHIP 100	5% 1/10W	R5213	1-216-647-11	METAL CHIP 680	0.50% 1/10W
R5008	1-216-025-00	RES,CHIP 100	5% 1/10W	R5214	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R5017	1-216-065-00	RES,CHIP 4.7K	5% 1/10W	R5215	1-216-017-00	RES,CHIP 47	5% 1/10W
R5019	1-216-091-00	RES,CHIP 56K	5% 1/10W	R5216	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R5028	1-216-077-00	RES,CHIP 15K	5% 1/10W	R5218	1-216-043-91	RES,CHIP 560	5% 1/10W
R5029	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R5219	1-216-672-11	METAL CHIP 7.5K	0.50% 1/10W
R5030	1-216-689-11	RES,CHIP 39K	5% 1/10W	R5220	1-216-679-11	METAL CHIP 15K	0.50% 1/10W
R5031	1-216-049-00	RES,CHIP 1K	5% 1/10W	R5221	1-216-049-00	RES,CHIP 1K	5% 1/10W
R5032	1-216-073-00	RES,CHIP 10K	5% 1/10W	R5222	1-216-295-00	SHORT 0	
R5033	1-208-845-11	RES,CHIP 1M	5% 1/10W	R5223	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R5034	1-208-845-11	RES,CHIP 1M	5% 1/10W	R5224	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R5035	1-216-085-00	RES,CHIP 33K	5% 1/10W	R5226	1-216-295-00	SHORT 0	
R5044	1-216-085-00	RES,CHIP 33K	5% 1/10W	R5227	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R5045	1-208-845-11	RES,CHIP 1M	5% 1/10W	R5228	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
R5046	1-208-845-11	RES,CHIP 1M	5% 1/10W	R5229	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R5047	1-216-073-00	RES,CHIP 10K	5% 1/10W	R5230	1-216-673-11	METAL CHIP 8.2K	0.50% 1/10W
R5048	1-216-689-11	RES,CHIP 39K	5% 1/10W	R5231	1-216-059-00	RES,CHIP 2.7K	5% 1/10W
R5049	1-216-049-00	RES,CHIP 1K	5% 1/10W	R5232	1-216-295-00	SHORT 0	
R5050	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R5233	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
				R5234	1-216-295-00	SHORT 0	
				R5235	1-216-057-00	RES,CHIP 2.2K	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK				REF. NO.	PART NO.	DESCRIPTION	REMARK			
R5236	1-216-295-00	SHORT	0				R5418	1-216-043-91	RES,CHIP	560	5%	1/10W	
R5237	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5422	1-216-295-00	SHORT	0			
R5238	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W		R5423	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5239	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W		R5424	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
							R5430	1-216-295-00	SHORT	0			
R5240	1-216-295-00	SHORT	0				R5431	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R5241	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5432	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R5242	1-216-295-00	SHORT	0				R5433	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R5243	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5434	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R5244	1-216-295-00	SHORT	0				R5435	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	
R5245	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5436	1-216-295-00	SHORT	0			
R5246	1-216-295-00	SHORT	0				R5437	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5248	1-216-295-00	SHORT	0				R5438	1-216-295-00	SHORT	0			
R5249	1-216-295-00	SHORT	0				R5439	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5250	1-216-111-00	RES,CHIP	390K	5%	1/10W		R5440	1-216-295-00	SHORT	0			
R5252	1-216-111-00	RES,CHIP	390K	5%	1/10W		R5441	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5253	1-216-111-00	RES,CHIP	390K	5%	1/10W		R5442	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W	
R5254	1-216-111-00	RES,CHIP	390K	5%	1/10W		R5443	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	
R5256	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5444	1-216-295-00	SHORT	0			
R5257	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5445	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5258	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5446	1-216-295-00	SHORT	0			
R5259	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5447	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5260	1-216-001-00	RES,CHIP	10	5%	1/10W		R5448	1-216-295-00	SHORT	0			
R5261	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5449	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R5262	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5452	1-216-295-00	SHORT	0			
R5263	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5453	1-216-295-00	SHORT	0			
R5264	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5455	1-216-111-00	RES,CHIP	390K	5%	1/10W	
R5265	1-216-001-00	RES,CHIP	10	5%	1/10W		R5456	1-216-111-00	RES,CHIP	390K	5%	1/10W	
R5266	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5457	1-216-111-00	RES,CHIP	390K	5%	1/10W	
R5267	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5458	1-216-111-00	RES,CHIP	390K	5%	1/10W	
R5268	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5459	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5269	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5460	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5270	1-216-001-00	RES,CHIP	10	5%	1/10W		R5461	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5271	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5462	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5272	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5463	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5273	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5464	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5274	1-216-298-00	RES,CHIP	2.2	5%	1/10W		R5465	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5275	1-216-001-00	RES,CHIP	10	5%	1/10W		R5466	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5276	1-216-001-00	RES,CHIP	10	5%	1/10W		R5467	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5285	1-216-077-00	RES,CHIP	15K	5%	1/10W		R5468	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5286	1-216-085-00	RES,CHIP	33K	5%	1/10W		R5469	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5287	1-216-025-00	RES,CHIP	100	5%	1/10W		R5470	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5288	1-216-295-00	SHORT	0				R5471	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5290	1-216-619-11	METAL CHIP	47	0.50%	1/10W		R5472	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5292	1-216-073-00	RES,CHIP	10K	5%	1/10W		R5473	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5293	1-216-071-00	RES,CHIP	8.2K	5%	1/10W		R5474	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5294	1-216-643-11	METAL CHIP	470	0.50%	1/10W		R5475	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R5295	1-216-017-00	RES,CHIP	47	5%	1/10W		R5476	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5296	1-216-681-11	METAL CHIP	18K	0.50%	1/10W		R5477	1-216-298-00	RES,CHIP	2.2	5%	1/10W	
R5297	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W		R5478	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5298	1-216-055-00	RES,CHIP	1.8K	5%	1/10W		R5479	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5301	1-216-295-00	SHORT	0				R5484	1-216-295-00	SHORT	0			
R5302	1-216-295-00	SHORT	0				R5488	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R5305	1-216-025-00	RES,CHIP	100	5%	1/10W		R5489	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
R5306	1-216-025-00	RES,CHIP	100	5%	1/10W		R5490	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R5401	1-216-001-00	RES,CHIP	10	5%	1/10W		R5491	1-216-017-00	RES,CHIP	47	5%	1/10W	
R5402	1-216-295-00	SHORT	0				R5494	1-216-025-00	RES,CHIP	100	5%	1/10W	
R5403	1-208-845-11	RES,CHIP	1M	5%	1/10W		R5495	1-216-025-00	RES,CHIP	100	5%	1/10W	
R5405	1-216-295-00	SHORT	0				R5601	1-216-001-00	RES,CHIP	10	5%	1/10W	
R5406	1-216-039-00	RES,CHIP	390	5%	1/10W		R5602	1-216-295-00	SHORT	0			
R5407	1-216-051-00	RES,CHIP	1.2K	5%	1/10W		R5603	1-208-845-11	RES,CHIP	1M	5%	1/10W	
R5408	1-216-619-11	METAL CHIP	47	0.50%	1/10W		R5605	1-216-295-00	SHORT	0			
R5409	1-216-049-00	RES,CHIP	1K	5%	1/10W		R5606	1-216-039-00	RES,CHIP	390	5%	1/10W	
R5410	1-216-073-00	RES,CHIP	10K	5%	1/10W		R5607	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
R5411	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5608	1-216-619-11	METAL CHIP	47	0.50%	1/10W	
R5412	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W		R5609	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R5413	1-216-647-11	METAL CHIP	680	0.50%	1/10W		R5610	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R5414	1-216-643-11	METAL CHIP	470	0.50%	1/10W		R5611	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	
R5415	1-216-017-00	RES,CHIP	47	5%	1/10W		R5612	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R5416	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W								

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R5613	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R5708	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R5614	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R5709	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R5615	1-216-017-00	RES,CHIP	47	5%	1/10W	R5710	1-216-017-00	RES,CHIP	47	5%	1/10W
R5616	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W	R5711	1-216-077-00	RES,CHIP	15K	5%	1/10W
R5618	1-216-043-91	RES,CHIP	560	5%	1/10W	R5714	1-216-025-00	RES,CHIP	100	5%	1/10W
R5622	1-216-295-00	SHORT	0			R5715	1-216-025-00	RES,CHIP	100	5%	1/10W
R5623	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	<RESISTOR NETWORK>					
R5624	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	RB5001	1-236-404-11	NETWORK, RES	220		
R5627	1-216-295-00	SHORT	0			RB5002	1-236-404-11	NETWORK, RES	220		
R5628	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	RB5003	1-236-400-11	NETWORK, RES	100		
R5629	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	RB5006	1-236-400-11	NETWORK, RES	100		
R5630	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	RB5007	1-236-400-11	NETWORK, RES	100		
R5631	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	RB5008	1-236-400-11	NETWORK, RES	100		
R5632	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	RB5011	1-236-404-11	NETWORK, RES	220		
R5633	1-216-295-00	SHORT	0			RB5012	1-236-404-11	NETWORK, RES	220		
R5634	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	<VARIABLE RESISTOR>					
R5635	1-216-295-00	SHORT	0			RV5201	1-241-392-11	RES, ADJ, METAL GLAZE	1K		
R5636	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	RV5203	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5637	1-216-295-00	SHORT	0			RV5204	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5638	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	RV5205	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5639	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W	RV5206	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5640	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	RV5207	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5641	1-216-295-00	SHORT	0			RV5208	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5642	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	RV5209	1-241-392-11	RES, ADJ, METAL GLAZE	1K		
R5643	1-216-295-00	SHORT	0			RV5211	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5644	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	RV5401	1-241-392-11	RES, ADJ, METAL GLAZE	1K		
R5645	1-216-295-00	SHORT	0			RV5402	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5646	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	RV5403	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5649	1-216-295-00	SHORT	0			RV5404	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5650	1-216-295-00	SHORT	0			RV5405	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5652	1-216-111-00	RES,CHIP	390K	5%	1/10W	RV5406	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5653	1-216-111-00	RES,CHIP	390K	5%	1/10W	RV5407	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5654	1-216-111-00	RES,CHIP	390K	5%	1/10W	RV5408	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5655	1-216-111-00	RES,CHIP	390K	5%	1/10W	RV5410	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5656	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV5411	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5657	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV5601	1-241-392-11	RES, ADJ, METAL GLAZE	1K		
R5658	1-216-298-00	RES,CHIP	2.2	5%	1/10W	RV5603	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5659	1-216-298-00	RES,CHIP	2.2	5%	1/10W	RV5604	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5670	1-216-001-00	RES,CHIP	10	5%	1/10W	RV5605	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5671	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV5606	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5672	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV5607	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5673	1-216-298-00	RES,CHIP	2.2	5%	1/10W	RV5608	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5674	1-216-298-00	RES,CHIP	2.2	5%	1/10W	RV5609	1-241-392-11	RES, ADJ, METAL GLAZE	1K		
R5675	1-216-001-00	RES,CHIP	10	5%	1/10W	RV5611	1-241-394-11	RES, ADJ, METAL GLAZE	4.7K		
R5676	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	<THERMISTOR>					
R5677	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	TH5201	1-806-715-11	THERMISTOR			
R5678	1-216-298-00	RES,CHIP	2.2	5%	1/10W	*****					
R5679	1-216-298-00	RES,CHIP	2.2	5%	1/10W						
R5680	1-216-001-00	RES,CHIP	10	5%	1/10W						
R5681	1-216-061-00	RES,CHIP	3.3K	5%	1/10W						
R5682	1-216-061-00	RES,CHIP	3.3K	5%	1/10W						
R5683	1-216-298-00	RES,CHIP	2.2	5%	1/10W						
R5684	1-216-298-00	RES,CHIP	2.2	5%	1/10W						
R5685	1-216-001-00	RES,CHIP	10	5%	1/10W						
R5686	1-216-001-00	RES,CHIP	10	5%	1/10W						
R5687	1-216-077-00	RES,CHIP	15K	5%	1/10W						
R5688	1-216-077-00	RES,CHIP	15K	5%	1/10W						
R5689	1-216-077-00	RES,CHIP	15K	5%	1/10W						
R5691	1-216-025-00	RES,CHIP	100	5%	1/10W						
R5692	1-216-025-00	RES,CHIP	100	5%	1/10W						
R5693	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R5694	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R5699	1-216-295-00	SHORT	0								
R5700	1-216-295-00	SHORT	0								
R5701	1-216-059-00	RES,CHIP	2.7K	5%	1/10W						
R5703	1-216-295-00	SHORT	0								
R5705	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W						
R5707	1-216-073-00	RES,CHIP	10K	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1372-259-A H BOARD, COMPLETE *****			
* 4-041-068-01 HOLDER, LED 4-359-103-00 HOLDER, LED			
<CAPACITOR>			
C8004	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V	
C8006	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V	
C8009	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C8010	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
<CONNECTOR>			
CN8001	* 1-564-524-11	PLUG, CONNECTOR 9P	
CN8003	* 1-564-525-11	PLUG, CONNECTOR 10P	
CN8004	* 1-564-518-11	PLUG, CONNECTOR 3P	
CN8005	* 1-564-518-11	PLUG, CONNECTOR 3P	
<DIODE>			
D8001	8-719-991-33	DIODE 1SS133T-77	
D8002	8-719-920-55	DIODE SPR-54MVW	
D8004	8-719-016-73	DIODE STZ6.8T	
D8005	8-719-812-41	DIODE TLR124	
D8006	8-719-016-73	DIODE STZ6.8T	
D8007	8-719-812-41	DIODE TLR124	
D8008	8-719-016-73	DIODE STZ6.8T	
D8009	8-719-016-73	DIODE STZ6.8T	
D8011	8-719-016-73	DIODE STZ6.8T	
D8012	8-719-016-73	DIODE STZ6.8T	
D8013	8-719-016-73	DIODE STZ6.8T	
<IC>			
IC8001	8-742-088-10	HYB IC SBX1780-51(10)	
<JACK>			
J8001	1-573-970-11	BLOCK, (S) TERMINAL	
J8002	1-774-753-11	JACK	
<COIL>			
L8001	1-408-603-31	INDUCTOR 10UH	
L8002	1-408-603-31	INDUCTOR 10UH	
<TRANSISTOR>			
Q8001	8-729-027-23	TRANSISTOR DTA114EKA-T146	
<RESISTOR>			
R8002	1-216-037-00	RES,CHIP 330 5% 1/10W	
R8003	1-216-037-00	RES,CHIP 330 5% 1/10W	
R8004	1-216-037-00	RES,CHIP 330 5% 1/10W	
R8006	1-216-049-00	RES,CHIP 1K 5% 1/10W	
R8008	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R8010	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
R8012	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R8013	1-216-081-00	RES,CHIP 22K 5% 1/10W	
R8016	1-216-296-00	SHORT 0	
R8017	1-216-295-00	SHORT 0	
R8018	1-216-295-00	SHORT 0	
R8019	1-216-295-00	SHORT 0	
R8020	1-216-037-00	RES,CHIP 330 5% 1/10W	
R8021	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
R8022	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8023	1-216-053-00	RES,CHIP 1.5K 5% 1/10W	
R8024	1-216-053-00	RES,CHIP 1.5K 5% 1/10W	
R8025	1-216-295-00	SHORT 0	
R8026	1-216-295-00	SHORT 0	
<SWITCH>			
S8001	1-571-731-11	SWITCH, TACTIL	
S8003	1-571-731-11	SWITCH, TACTIL	
S8005	1-571-731-11	SWITCH, TACTIL	
S8008	1-571-731-11	SWITCH, TACTIL	
S8010	1-571-731-11	SWITCH, TACTIL	

* A-1388-189-A J BOARD, COMPLETE *****			
<CAPACITOR>			
C2001	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2002	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2003	1-126-964-11	ELECT 10MF 20% 50V	
C2004	1-126-964-11	ELECT 10MF 20% 50V	
C2005	1-104-664-11	ELECT 47MF 20% 16V	
C2006	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C2401	1-164-005-11	CERAMIC CHIP 0.47MF 16V	
C2402	1-126-933-11	ELECT 100MF 20% 16V	
C2403	1-164-005-11	CERAMIC CHIP 0.47MF 16V	
C2410	1-126-966-11	ELECT 33MF 20% 50V	
C2421	1-104-664-11	ELECT 47MF 20% 16V	
C2422	1-104-664-11	ELECT 47MF 20% 16V	
C2423	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C2424	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2425	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2426	1-104-664-11	ELECT 47MF 20% 16V	
C2427	1-164-346-11	CERAMIC CHIP 1MF 16V	
C2428	1-164-346-11	CERAMIC CHIP 1MF 16V	
C2429	1-104-661-91	ELECT 330MF 20% 16V	
C2430	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C2901	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2902	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2904	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2905	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2906	1-101-004-00	CERAMIC 0.01MF 50V	
C2907	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2908	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2909	1-101-004-00	CERAMIC 0.01MF 50V	
C2910	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C2911	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C2912	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2913	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2914	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2915	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
C2916	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2917	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2918	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C2919	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C2920	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2921	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C2922	1-104-664-11	ELECT 47MF 20% 16V	
C2923	1-164-346-11	CERAMIC CHIP 1MF 16V	
C2924	1-104-664-11	ELECT 47MF 20% 16V	
C2925	1-104-664-11	ELECT 47MF 20% 16V	
C2926	1-164-346-11	CERAMIC CHIP 1MF 16V	
C2928	1-104-664-11	ELECT 47MF 20% 16V	
C2929	1-104-664-11	ELECT 47MF 20% 16V	
C2930	1-104-664-11	ELECT 47MF 20% 16V	
C2931	1-164-346-11	CERAMIC CHIP 1MF 16V	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2932	1-164-346-11	CERAMIC CHIP 1MF	16V			<JACK>	
C2933	1-104-664-11	ELECT 47MF	20% 16V	J2001	1-537-505-11	TERMINAL BOARD (2P)	
C2935	1-104-664-11	ELECT 47MF	20% 16V	J2901	1-695-296-11	TERMINAL BLOCK, S	
C2936	1-164-346-11	CERAMIC CHIP 1MF	16V	J2903	1-695-549-11	SOCKET, PIN 21P	
C2937	1-164-346-11	CERAMIC CHIP 1MF	16V	J2904	1-695-296-11	TERMINAL BLOCK, S	
C2938	1-104-664-11	ELECT 47MF	20% 16V	J2905	1-695-549-11	SOCKET, PIN 21P	
C2939	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	J2906	1-695-296-11	TERMINAL BLOCK, S	
C2940	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	J2907	1-695-549-11	SOCKET, PIN 21P	
<CONNECTOR>				<CHIP CONDUCTOR>			
CN2806	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		JR1	1-216-295-00	SHORT	0
CN2823	* 1-564-524-11	PLUG, CONNECTOR 9P		JR4	1-216-296-00	SHORT	0
<DIODE>				JR5	1-216-295-00	SHORT	0
D2001	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR6	1-216-295-00	SHORT	0
D2002	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR8	1-216-295-00	SHORT	0
D2401	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR9	1-216-295-00	SHORT	0
D2403	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR10	1-216-295-00	SHORT	0
D2405	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR11	1-216-295-00	SHORT	0
D2406	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR12	1-216-295-00	SHORT	0
D2407	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR15	1-216-295-00	SHORT	0
D2901	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR50	1-216-296-00	SHORT	0
D2902	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR51	1-216-296-00	SHORT	0
D2903	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2001	1-216-295-00	SHORT	0
D2904	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2002	1-216-295-00	SHORT	0
D2905	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2005	1-216-296-00	SHORT	0
D2906	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2401	1-216-295-00	SHORT	0
D2907	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2402	1-216-295-00	SHORT	0
D2908	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2403	1-216-295-00	SHORT	0
D2909	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2901	1-216-295-00	SHORT	0
D2910	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2902	1-216-295-00	SHORT	0
D2911	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2903	1-216-295-00	SHORT	0
D2913	8-719-923-60	DIODE MTZJ-T-77-9.1A		<TRANSISTOR>			
D2914	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2001	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2915	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2002	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2916	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2401	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2917	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2402	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2919	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2403	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2920	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2404	8-729-620-06	TRANSISTOR 2SC3052-EF	
D2921	8-719-923-60	DIODE MTZJ-T-77-9.1A		<RESISTOR>			
D2922	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2003	1-216-113-00	RES,CHIP	470K 5% 1/10W
D2923	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2005	1-216-113-00	RES,CHIP	470K 5% 1/10W
D2924	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2006	1-249-421-11	CARBON	2.2K 5% 1/4W
D2925	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2007	1-249-421-11	CARBON	2.2K 5% 1/4W
D2926	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2401	1-216-009-00	RES,CHIP	22 5% 1/10W
D2927	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2403	1-216-025-00	RES,CHIP	100 5% 1/10W
D2928	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2404	1-216-158-00	RES,CHIP	22 5% 1/8W
D2930	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2405	1-216-025-00	RES,CHIP	100 5% 1/10W
D2931	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2406	1-216-158-00	RES,CHIP	22 5% 1/8W
D2932	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2407	1-216-025-00	RES,CHIP	100 5% 1/10W
<FERRITE BEAD>				R2410	1-216-174-00	RES,CHIP	100 5% 1/8W
FB2001	1-414-235-11	INDUCTOR CHIP 0UH		R2411	1-216-174-00	RES,CHIP	100 5% 1/8W
FB2002	1-414-235-11	INDUCTOR CHIP 0UH		R2412	1-216-022-00	RES,CHIP	75 5% 1/10W
FB2003	1-414-235-11	INDUCTOR CHIP 0UH		R2413	1-216-022-00	RES,CHIP	75 5% 1/10W
FB2004	1-414-235-11	INDUCTOR CHIP 0UH		R2414	1-216-022-00	RES,CHIP	75 5% 1/10W
FB2005	1-414-235-11	INDUCTOR CHIP 0UH		R2416	1-216-113-00	RES,CHIP	470K 5% 1/10W
FB2006	1-414-235-11	INDUCTOR CHIP 0UH		R2417	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
<IC>				R2419	1-216-113-00	RES,CHIP	470K 5% 1/10W
IC2401	8-752-068-46	IC CXA1855S		R2420	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
IC2402	8-759-073-00	IC TEA2114		R2421	1-216-022-00	RES,CHIP	75 5% 1/10W
				R2423	1-216-015-00	RES,CHIP	39 5% 1/10W
				R2424	1-216-174-00	RES,CHIP	100 5% 1/8W
				R2425	1-216-174-00	RES,CHIP	100 5% 1/8W
				R2428	1-249-393-11	CARBON	10 5% 1/4W F

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2429	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2430	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2431	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2432	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2433	1-216-296-00	SHORT	0
R2434	1-216-198-91	RES,CHIP	1K 5% 1/8W
R2435	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2436	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2437	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2438	1-216-296-00	SHORT	0
R2439	1-216-295-00	SHORT	0
R2440	1-216-296-00	SHORT	0
R2901	1-216-039-00	RES,CHIP	390 5% 1/10W
R2902	1-216-039-00	RES,CHIP	390 5% 1/10W
R2903	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2904	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2905	1-216-039-00	RES,CHIP	390 5% 1/10W
R2906	1-216-039-00	RES,CHIP	390 5% 1/10W
R2907	1-216-171-00	RES,CHIP	75 5% 1/8W
R2908	1-216-171-00	RES,CHIP	75 5% 1/8W
R2909	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2910	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2911	1-216-022-00	RES,CHIP	75 5% 1/10W
R2913	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2914	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2915	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2916	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2917	1-216-171-00	RES,CHIP	75 5% 1/8W
R2918	1-216-171-00	RES,CHIP	75 5% 1/8W
R2919	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2920	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2921	1-216-022-00	RES,CHIP	75 5% 1/10W
R2922	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2923	1-216-039-00	RES,CHIP	390 5% 1/10W
R2924	1-216-039-00	RES,CHIP	390 5% 1/10W
R2925	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2926	1-216-039-00	RES,CHIP	390 5% 1/10W
R2927	1-216-039-00	RES,CHIP	390 5% 1/10W
R2928	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2929	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2930	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2931	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2932	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2933	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2934	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2935	1-216-022-00	RES,CHIP	75 5% 1/10W
R2936	1-216-171-00	RES,CHIP	75 5% 1/8W
R2937	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2938	1-216-039-00	RES,CHIP	390 5% 1/10W
R2939	1-216-039-00	RES,CHIP	390 5% 1/10W
R2940	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2941	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2942	1-216-039-00	RES,CHIP	390 5% 1/10W
R2943	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2944	1-216-039-00	RES,CHIP	390 5% 1/10W
R2945	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2946	1-216-022-00	RES,CHIP	75 5% 1/10W
R2948	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2949	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2950	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2951	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2952	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2953	1-216-039-00	RES,CHIP	390 5% 1/10W
R2954	1-216-039-00	RES,CHIP	390 5% 1/10W
R2955	1-216-039-00	RES,CHIP	390 5% 1/10W
R2956	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2957	1-216-039-00	RES,CHIP	390 5% 1/10W
R2958	1-216-089-00	RES,CHIP	47K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2959	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R2960	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R2961	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R2962	1-216-022-00	RES,CHIP	75 5% 1/10W
R2963	1-216-022-00	RES,CHIP	75 5% 1/10W
R2964	1-216-022-00	RES,CHIP	75 5% 1/10W
R2967	1-216-171-00	RES,CHIP	75 5% 1/8W
R2968	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2969	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2970	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2971	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2972	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2973	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2974	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2975	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2976	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2977	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R2978	1-216-037-00	RES,CHIP	330 5% 1/10W
R2979	1-216-037-00	RES,CHIP	330 5% 1/10W
R2980	1-216-037-00	RES,CHIP	330 5% 1/10W
R2981	1-216-037-00	RES,CHIP	330 5% 1/10W

* A-1390-621-A TA BOARD, COMPLETE			

<CONNECTOR>			
CN9501	* 1-564-518-11	PLUG, CONNECTOR 3P	
<SWITCH>			
S9501	1-570-245-11	SWITCH, MICRO	

* A-1390-622-A TB BOARD, COMPLETE			

<CONNECTOR>			
CN9551	* 1-564-518-11	PLUG, CONNECTOR 3P	
<SWITCH>			
S9551	1-570-245-11	SWITCH, MICRO	

MISCELLANEOUS			

1-251-372-21 BOOSTER, RF			
\triangle 1-473-545-13 POWER BLOCK			
1-505-207-11 SPEAKER (5.7CM)			
1-505-845-11 SPEAKER (10CM)			
\triangle 1-533-746-11 THERMOSTAT			
1-543-653-11 CORE ASSY, BEAD(DIVISION TYPE)			
1-698-696-21 FAN, DC			
\triangle * 1-758-091-12 OPTICAL UNIT			
\triangle 1-776-860-12 POWER COARD, FILTER (UK)			
* 1-777-539-11 CABLE, PIN			

REF. NO.	PART NO.	DESCRIPTION	REMARK
ACCESSORIES AND PACKING MATERIALS			

	X-4033-430-1	WRENCH ASSY	
	X-4200-355-1	DUST REMOVER ASSY	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	4-392-004-01	CLIP	
	4-203-832-61	MANUAL, INSTRUCTION	
	4-204-004-01	CARD, INQUIRY	
	* 4-030-594-11	BAG, PROTECTION	
	* 4-030-895-01	JOINT	
	* 4-054-723-01	CUSHION (UPPER) (ASSY)	
	* 4-054-724-01	CUSHION (LOWER) (ASSY)	
	* 4-054-725-01	TRAY	
	* 4-060-568-01	INDIVIDUAL CARTON	
REMOTE COMMANDER			

	1-473-407-11	COMMANDER, STANDARD (RM-838)	

